



# **ADAPTER**

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## TECHNOLOGY

***GaN FET Power Supply***  
***Switching Adapter***  
***Medical Power Supply***  
***Military Power Supply***  
***Open Frame Power Supply***  
***Custom-Design***



**GaN Adapter**



# ADAPTER TECHNOLOGY

## Background :

**Adapter Technology Co., Ltd.** was founded in 2001 and it has become a promising and growing enterprise with design ability in the Power Supply Manufacturing industry. We dedicate to providing reliable quality, flexible service and upgrading technology to meet customer's request. Our product line covers I.T.E., medical, industrial applications, and chargers. With strong R&D team's support, we can custom design according to each different specification and provide the best solution to customers.

## History :

- 2001 Established Adapter Technology Co., Ltd. in Taipei, Taiwan
- 2003 LITEON IT Approved Vender
- 2004 Implement RoHS and Green Products
- 2005 Microsoft Approved Vender
- 2008 Established factory in Dongguan Guang Dong, China
- 2009 Acquired ISO 9001 certification, ISO 14001 certification, and Sony SPP
- 2010 Acquired OHSAS 18001
- 2012 Medical Grade 30W-200W series launched
- 2013 PSU for Pachinko Slot-Machine Industry in Japan
- 2014 Capital Increased to USD 5 Million
- 2015 External Power Adapter Line Meet Level VI Efficiency: 5W-300W
- 2016 I.T.E. External Power Adapter Meet CoC Tier 2 Efficiency: 5W-300W
- 2016 Medical Grade Power Adapter Meet Level VI Efficiency: 6W-300W
- 2017 Acquired ISO 13485 for Medical Device Quality Management System
- 2018 I.T.E. External Power Adapter Acquired IEC/EN/UL 62368-1 Approval
- 2019 GaN Adapter Development 90W-300W
- 2021 GaN Adapter Series Launched/Established New EMI/Surge Chamber
- 2022 New series AC adapter from 90W-450W Acquired IEC/EN/UL 62368-1 3rd edition approval
- 2023 Medical 45W, 65W, and 100W AC Changeable P.D. Adapter / 1KW Power Supply Launched
- 2024 DC-DC Converter for Low-Orbit Satellite / 1.4KW Power Supply for UPS Charger Development


## Products :

1. Switching Power Adapter
2. GaN FET Power Supply
3. Open Frame Switching Power Supply
4. Medical Power Supply
5. Military Power Supply
6. Custom Design

The image shows the entrance to the factory of Boyang Electronics Co., Ltd. A large brick wall features the company name in Chinese characters '东莞柏洋电子有限公司' and 'BOAYANG ELECTRONICS CO., LTD.' in English. To the right, there is a metal gate and a vertical sign with Chinese characters.

东莞柏洋电子有限公司  
BOAYANG ELECTRONICS CO., LTD.

## I.T.E. POWER SUPPLY

- 03 5W Series
- 04 12W Series (Wall Mount/Interchangeable/USB connector) 
- 06 12W Small Size Series
- 07 18W Series (Wall Mount/Interchangeable/Desktop)
- 09 24W Series (Wall Mount/Interchangeable/Desktop)
- 11 36W Series (Wall Mount/Interchangeable/Desktop)
- 13 40W Series
- 14 50W Series
- 15 60W Series
- 16 65W Series
- 17 65W Series
- 18 90W Series
- 19 120W Series
- 20 160W Series
- 21 200W Series
- 22 240W Series
- 23 300W Series









## P.D. TYPE-C SERIES POWER SUPPLY

- 24 45W / 65W Series (Desktop)
- 25 45W / 65W Series (Wall Mount/Interchangeable) 
- 26 100W Series 

## GaN FET POWER SUPPLY

- 27 120W I.T.E. Series
- 28 160W I.T.E. Series
- 29 200W I.T.E. Series
- 30 200W Medical Series
- 31 250W I.T.E. / Medical Series
- 32 270W I.T.E. Series
- 33 300W I.T.E. / Medical Series
- 34 450W I.T.E. / Medical Series

## MEDICAL POWER SUPPLY

- 35 6W Series
- 36 12W Series (Wall Mount/Interchangeable/USB connector) 
- 37 24W / 36W Series (Wall Mount/Interchangeable) 
- 38 36W Series
- 39 65W Series 
- 40 65W Series
- 41 90W Series 
- 42 120W Series 
- 43 160W Series 
- 44 200W Series 
- 45 250W Series
- 46 300W Series 

## OPEN FRAME POWER SUPPLY

- 47 5W / 12W Power Module Series
- 48 12W / 24W Series
- 49 65W Small Size Series 
- 50 65W Series
- 51 120W / 150W Series
- 52 200W Series
- 53 200W Small Size Series
- 54 210W Dual Output
- 55 305W Dual Output
- 56 450W Series
- 57 612W Series
- 58 1.4KW Series

## SPECIAL APPLICATION

- 59 Military Grade Power Supply
- 60 Marine Negative Input Voltage / Automotive DC-DC Power Supply
- 61 600W 1U Rack Mount / Adjustable 500W Power Supply

## 5 Watt Series

Wall Mount Type

USA / Japan / Taiwan / Europe / UK

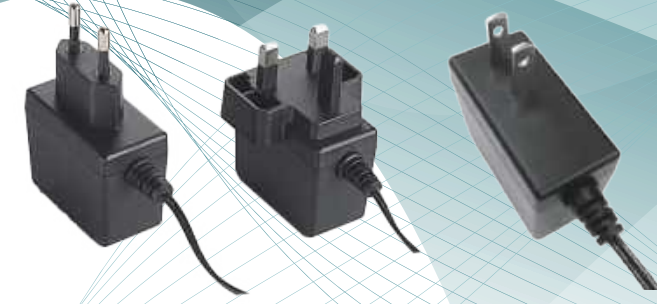
ATS005T - W X X X □

O / P Voltage ←

→ U : US Plug

E : EU Plug

B : UK Plug



### Features :

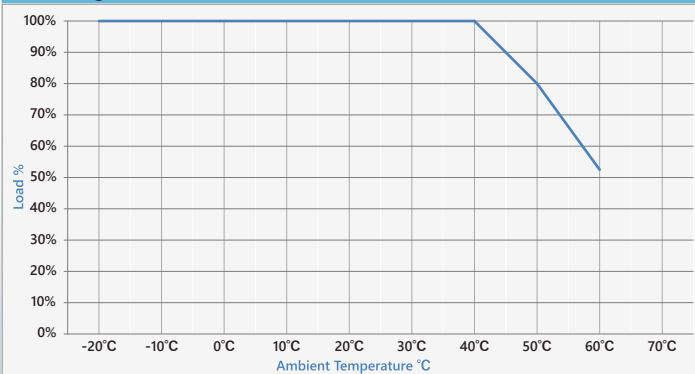
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS005T-W033□	3.3V	1.50A	4.95W
ATS005T-W050□	5.0V	1.00A	5.00W
ATS005T-W051□	5.0V	1.50A	7.50W
ATS005T-W060□	5.9V	1.20A	7.08W
ATS005T-W075□	7.5V	1.00A	7.50W
ATS005T-W090□	9.0V	0.67A	6.03W
ATS005T-W120□	12.0V	0.60A	7.20W
ATS005T-W150□	15.0V	0.50A	7.50W
ATS005T-W180□	18.0V	0.33A	5.94W
ATS005T-W240□	24.0V	0.25A	6.00W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	0.19A Max.
Protection	Internal Primary Current Fuse
Configuration	U for US Plug
	E for EU Plug
	B for UK Plug

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA
Efficiency	DoE Level VI, ErP Stage 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C, by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	U - L 56 × W 28 × H 59 (mm)
	E - L 56 × W 28 × H 79 (mm)
	B - L 56 × W 49 × H 71 (mm)
Weight	U : 82g    E : 96g
	B : 100g (Ref.)



# 12 Watt Series

Wall Mount Type  
USA / Japan / Taiwan / Europe / UK

ATS012T - W X X X □

O / P Voltage ←

U : US Plug  
E : EU Plug  
B : UK Plug

## Features :

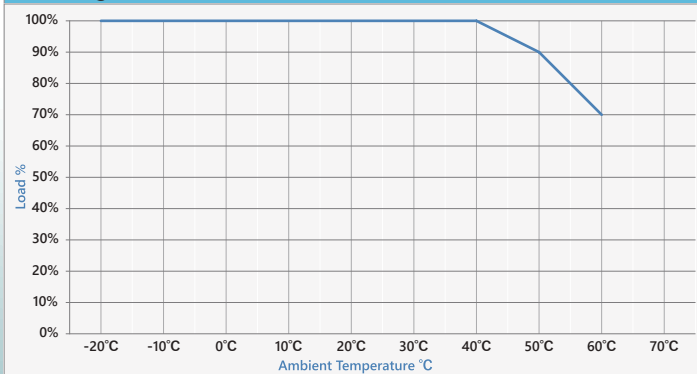
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS012T-W033□	3.3V	2.00A	6.60W
ATS012T-W050□	5.0V	2.00A	10.00W
ATS012T-W051□	5.0V	2.50A	12.50W
ATS012T-W060□	5.9V	2.00A	11.80W
ATS012T-W084□	8.4V	1.30A	10.92W
ATS012T-W090□	9.0V	1.20A	10.80W
ATS012T-W120□	12.0V	1.00A	12.00W
ATS012T-W135□	13.5V	0.89A	12.01W
ATS012T-W150□	15.0V	0.80A	12.00W
ATS012T-W180□	18.0V	0.67A	12.06W
ATS012T-W240□	24.0V	0.50A	12.00W

## Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	0.31A Max.
Protection	Internal Primary Current Fuse
Configuration	U for US Plug
	E for EU Plug
	B for UK Plug

## Derating Curve



## Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

## Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

## Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

## Mechanical

Case Dimension	U - L 72 × W 34 × H 59 (mm)
	E - L 72 × W 34 × H 80 (mm)
	B - L 72 × W 50 × H 71 (mm)
Weight	U : 126g      B : 130g
	E : 128g (Ref.)



**NEW**

**I.T.E.**

**Medical**

# 12 Watt Series

Wall Mount Type  
USA / Europe / UK / Australia /  
China / AC Plug Changeable

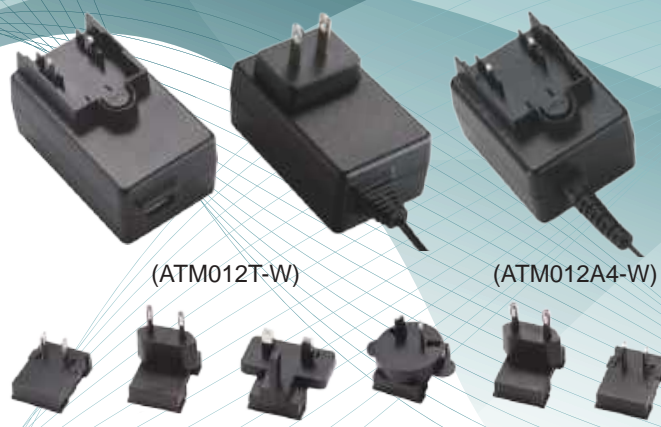
**ATM012A4 - W X X X V**

O / P Voltage ← V : Changeable Plug

**ATM012T - W X X X □ □**

O / P Voltage  
U : US Plug  
E : EU Plug  
B : UK Plug  
A : AU Plug  
C : CN Plug  
V : Changeable Plug

Blank : with DC cord  
U : with USB port



- Features :**
- IEC/EN/UL 62368-1 3rd Edition
  - 100-240VAC Universal Input
  - Regulated Output With Low Ripple Noise
  - Safety Agency Requirements and EMI/EMS Certified
  - Modified and Custom Design Available
  - 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM012T-W033□	3.3V	2.00A	6.60W
ATM012T-W050□□	5.0V	2.00A	10.00W
ATM012T-W051□	5.0V	3.00A	15.00W
ATM012T-W060□	5.9V	2.00A	11.80W
ATM012T-W062□	6.2V	2.00A	12.40W
ATM012T-W090□	9.0V	1.20A	10.80W
ATM012T-W120□	12.0V	1.00A	12.00W
ATM012T-W150□	15.0V	0.80A	12.00W
ATM012T-W180□	18.0V	0.67A	12.06W
ATM012T-W240□	24.0V	0.50A	12.00W
Model	O/P Voltage	O/P Current	Watt
ATM012A4-W050V	5.00V	2.00A	10.00W
ATM012A4-W051V	5.00V	3.00A	15.00W
ATM012A4-W052V	5.10V	2.40A	12.24W
ATM012A4-W062V	6.20V	2.00A	12.40W
ATM012A4-W090V	9.00V	1.33A	11.97W
ATM012A4-W120V	12.00V	1.00A	12.00W
ATM012A4-W240V	24.00V	0.50A	12.00W

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	ATM012T : 0.32A Max. ; ATM012A4 : 0.5A Max.
Protection	Internal Primary Current Fuse
Configuration	U for US Plug      B for UK Plug
	E for EU Plug      A for AU Plug
	C for CN Plug
	V for Changeable Plug

**Derating Curve**  
See P.37

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Electrical	
Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension (ATM012T)	U - L 80.2 × W 46 × H 57.5(mm)
	E - L 80.2 × W 46 × H 68.7(mm)
	B - L 80.2 × W 49.6 × H 62.7(mm)
	A - L 80.2 × W 56 × H 57.5(mm)
	C - L 80.2 × W 46 × H 57.5(mm)
Case Dimension (ATM012A4)	V - L 80.2 × W 46 × H 40.5(mm)
	L 59 × W 46 × H 40.5(mm)
Weight (ATM012T)	U : 140g E : 145g B : 148g
	A : 144g C : 140g V : 140g(Ref.)
Weight(ATM012A4)	116g(Ref.)



## 12 Watt Series

Small Size Wall Mount Type  
USA / Japan / Taiwan

ATS012S - W X X X U

O / P Voltage ← U : US Plug →

### Features :

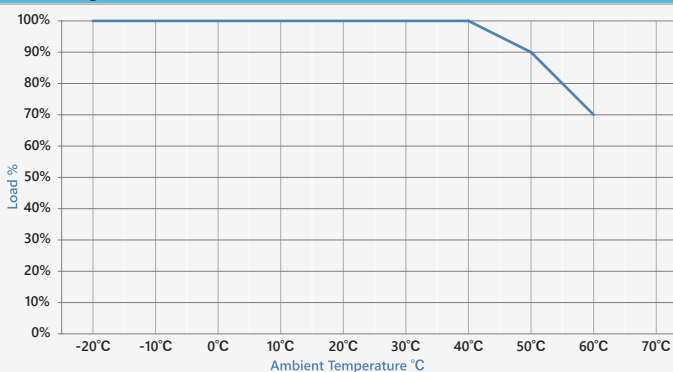
- IEC/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS012S-W033U	3.3V	2.0A	6.6W
ATS012S-W050U	5.0V	2.0A	10.0W
ATS012S-W060U	5.9V	2.0A	11.8W
ATS012S-W090U	9.0V	1.2A	10.8W
ATS012S-W120U	12.0V	1.0A	12.0W
ATS012S-W150U	15.0V	0.8A	12.0W
ATS012S-W240U	24.0V	0.5A	12.0W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	0.31A Max.
Protection	Internal Primary Resistor Fuse
Configuration	U for US Plug

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 3% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 5mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA
Efficiency	DoE Level VI
EMC Standards	FCC CFR 47, Part 15 Subpart B
	ANSI C63.4 : 2014
	Canadian ICES-003 issue 7 (2020) Class B
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 65.4 × W 33.8 × H 25.4 (mm)
Weight	66g (Ref.)

# 18 Watt Series

Wall Mount Type

USA / Japan / Taiwan / Europe / UK / Australia /  
China / AC Plug Changeable

ATS018T - W X X X □

O / P Voltage

U : US Plug

E : EU Plug

B : UK Plug

A : AU Plug

C : CN Plug

V : Changeable Plug



## Features :

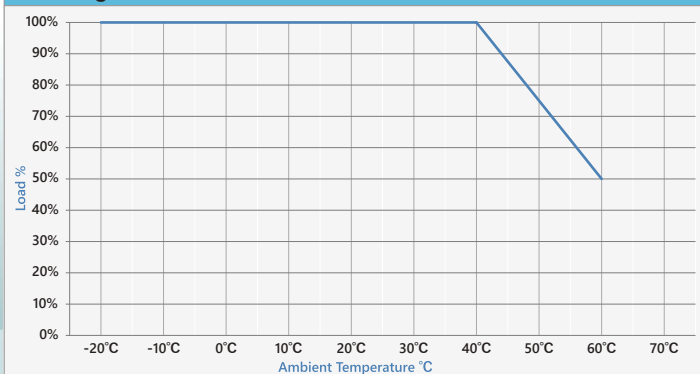
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS018T-W050□	5.0V	3.0A	15.00W
ATS018T-W060□	5.9V	2.5A	14.75W
ATS018T-W061□	5.9V	3.0A	17.70W
ATS018T-W070□	7.0V	2.5A	17.50W
ATS018T-W075□	7.5V	2.5A	18.75W
ATS018T-W090□	9.0V	2.2A	19.80W
ATS018T-W100□	10.0V	1.9A	19.00W
ATS018T-W110□	11.0V	1.6A	17.60W
ATS018T-W120□	12.0V	1.6A	19.20W
ATS018T-W150□	15.0V	1.3A	19.50W
ATS018T-W160□	16.0V	1.2A	19.20W
ATS018T-W180□	18.0V	1.1A	19.80W
ATS018T-W240□	24.0V	0.8A	19.20W

## Input

Voltage	100-240VAC	
Line Frequency	50-60Hz	
Current	0.48A Max.	
Protection	Internal Primary Current Fuse	
Configuration	U for US Plug	A for AU Plug
	E for EU Plug	C for CN Plug
	B for UK Plug	
	V for Changeable Plug	

## Derating Curve



## Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

## Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

## Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

## Mechanical

Case Dimension	U & C - L 72 x W 34 x H 69 (mm)
	E - L 72 x W 34 x H 90 (mm)
	B - L 72 x W 50 x H 81 (mm)
	A - L 72 x W 40 x H 78 (mm)
	V - L 75 x W 36 x H 66 (mm)
Weight	U : 148g      A : 150g
	E : 154g      C : 148g
	B : 158g      V : 158g (Ref.)







# 18 Watt Series

Desktop Type

ATS018T -  X X X

P : C6 / C14 ←

→ O / P Voltage

A : C8

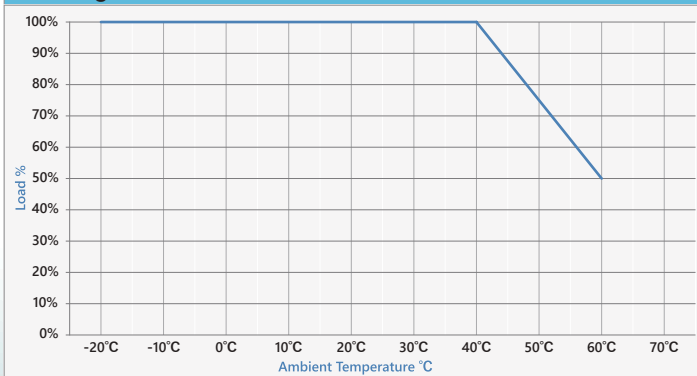


## Features :

- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS018T-□050	5.0V	3.0A	15.00W
ATS018T-□060	5.9V	2.5A	14.75W
ATS018T-□061	5.9V	3.0A	17.70W
ATS018T-□070	7.0V	2.5A	17.50W
ATS018T-□075	7.5V	2.5A	18.75W
ATS018T-□090	9.0V	2.2A	19.80W
ATS018T-□100	10.0V	1.9A	19.00W
ATS018T-□110	11.0V	1.6A	17.60W
ATS018T-□120	12.0V	1.6A	19.20W
ATS018T-□150	15.0V	1.3A	19.50W
ATS018T-□160	16.0V	1.2A	19.20W
ATS018T-□180	18.0V	1.1A	19.80W
ATS018T-□240	24.0V	0.8A	19.20W

## Derating Curve



Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	0.48A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6,C8,C14

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Electrical	
Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA @ 2Pin / < 5mA @ 3Pin
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C, by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension	C6 & C14 : L100 x W50 x H33(mm) C8 : L88 x W50 x H34(mm)
Weight	144g (Ref.)

## 24 Watt Series

Wall Mount Type

USA / Japan / Taiwan / Europe / UK / Australia / China / AC Plug Changeable

ATS024T - W X X X □

O / P Voltage

U : US Plug

E : EU Plug

B : UK Plug

A : AU Plug

C : CN Plug

V : Changeable Plug



### Features :

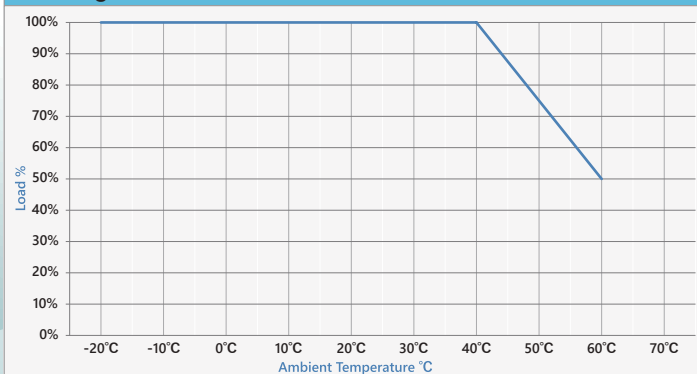
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS024T-W050□	5.0V	4.0A	20.00W
ATS024T-W060□	5.9V	3.5A	20.65W
ATS024T-W061□	5.9V	4.0A	23.60W
ATS024T-W070□	7.0V	3.0A	21.00W
ATS024T-W075□	7.5V	3.0A	22.50W
ATS024T-W090□	9.0V	2.5A	22.50W
ATS024T-W120□	12.0V	2.0A	24.00W
ATS024T-W150□	15.0V	1.6A	24.00W
ATS024T-W240□	24.0V	1.0A	24.00W
ATS024T-W480□	48.0V	0.5A	24.00W

### Input

Voltage	100-240VAC	
Line Frequency	50-60Hz	
Current	0.58A Max.	
Protection	Internal Primary Current Fuse	
Configuration	U for US Plug	A for AU Plug
	E for EU Plug	C for CN Plug
	B for UK Plug	
	V for Changeable Plug	

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	U & C - L 72 x W 34 x H 69 (mm)
	E - L 72 x W 34 x H 90 (mm)
	B - L 72 x W 50 x H 81 (mm)
	A - L 72 x W 40 x H 78 (mm)
	V - L 75 x W 36 x H 66 (mm)
Weight	U : 148g    A : 150g
	E : 154g    C : 148g
	B : 158g    V : 158g (Ref.)



## 24 Watt Series

Desktop Type

ATS024T -  X X X

P : C6 / C14  
A : C8

O / P Voltage



### Features :

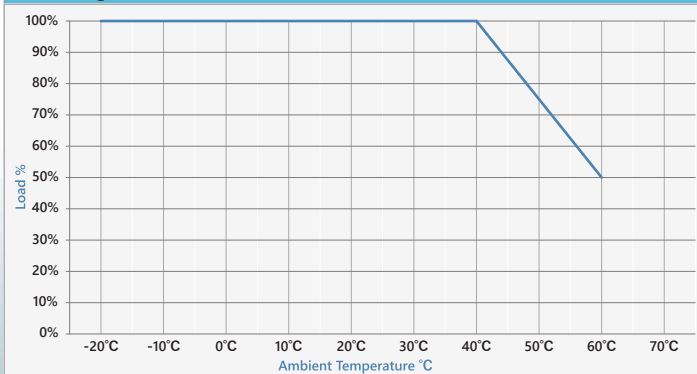
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS024T-□050	5.0V	4.0A	20.00W
ATS024T-□060	5.9V	3.5A	20.65W
ATS024T-□061	5.9V	4.0A	23.60W
ATS024T-□070	7.0V	3.0A	21.00W
ATS024T-□075	7.5V	3.0A	22.50W
ATS024T-□090	9.0V	2.5A	22.50W
ATS024T-□120	12.0V	2.0A	24.00W
ATS024T-□150	15.0V	1.6A	24.00W
ATS024T-□240	24.0V	1.0A	24.00W
ATS024T-□480	48.0V	0.5A	24.00W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	0.58A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6,C8,C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA @ 2Pin / < 5mA @ 3Pin
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	C6 & C14 : L100 x W50 x H33(mm)
	C8 : L88 x W50 x H34(mm)
Weight	166g (Ref.)

## 36 Watt Series

Wall Mount Type

USA / Japan / Taiwan / Europe / UK / Australia /  
China / AC Plug Changeable

ATS036T - W X X X □

O / P Voltage

U : US Plug

E : EU Plug

B : UK Plug

A : AU Plug

C : CN Plug

V : Changeable Plug



### Features :

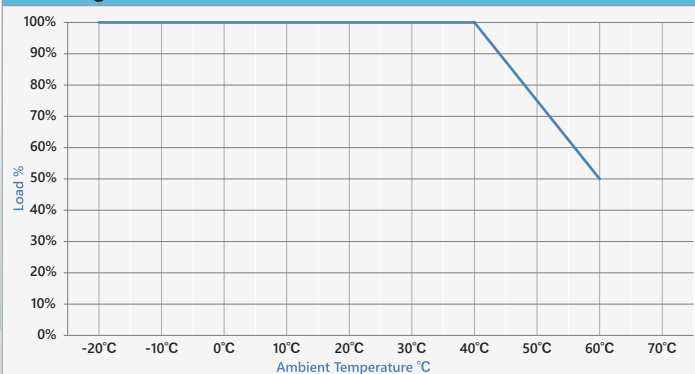
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS036T-W050□	5.0V	5.00A	25W
ATS036T-W075□	7.5V	4.00A	30W
ATS036T-W085□	8.5V	3.52A	30W
ATS036T-W090□	9.0V	3.34A	30W
ATS036T-W120□	12.0V	3.00A	36W
ATS036T-W121□	12.0V	2.50A	30W
ATS036T-W135□	13.5V	2.66A	36W
ATS036T-W150□	15.0V	2.40A	36W
ATS036T-W160□	16.0V	2.25A	36W
ATS036T-W180□	18.0V	2.00A	36W
ATS036T-W240□	24.0V	1.50A	36W
ATS036T-W480□	48.0V	0.75A	36W

### Input

Voltage	100-240VAC	
Line Frequency	50-60Hz	
Current	1A Max.	
Protection	Internal Primary Current Fuse	
Configuration	U for US Plug	B for UK Plug
	E for EU Plug	A for AU Plug
	C for CN Plug	
	V for Changeable Plug	

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

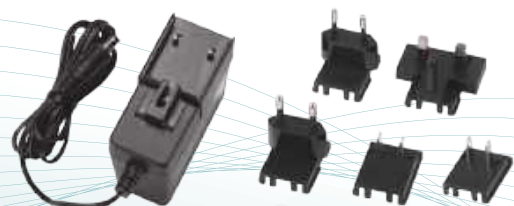
Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
MTBF	EN55035
	300,000 Calculated Hours at 25°C, by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	U - L 79 x W 34 x H 74 (mm)
	E - L 79 x W 34 x H 94 (mm)
	B - L 79 x W 49 x H 86 (mm)
	A - L 79 x W 41 x H 82 (mm)
	V - L 79 x W 35 x H 66 (mm)
Weight	160g (Ref.)





## 36 Watt Series

Desktop Type

ATS036T -  X X X

P : C14 ← → O / P Voltage  
A : C8



### Features :

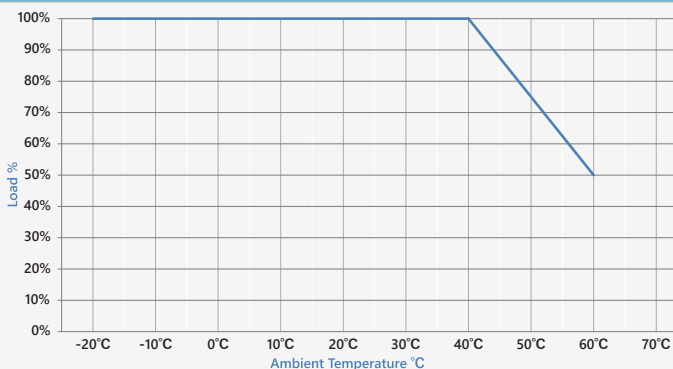
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS036T- <input type="checkbox"/> 050	5.0V	5.00A	25W
ATS036T- <input type="checkbox"/> 075	7.5V	4.00A	30W
ATS036T- <input type="checkbox"/> 085	8.5V	3.52A	30W
ATS036T- <input type="checkbox"/> 090	9.0V	3.34A	30W
ATS036T- <input type="checkbox"/> 120	12.0V	3.00A	36W
ATS036T- <input type="checkbox"/> 121	12.0V	2.50A	30W
ATS036T- <input type="checkbox"/> 135	13.5V	2.66A	36W
ATS036T- <input type="checkbox"/> 150	15.0V	2.40A	36W
ATS036T- <input type="checkbox"/> 160	16.0V	2.25A	36W
ATS036T- <input type="checkbox"/> 180	18.0V	2.00A	36W
ATS036T- <input type="checkbox"/> 240	24.0V	1.50A	36W
ATS036T- <input type="checkbox"/> 480	48.0V	0.75A	36W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C8,C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA @ 2Pin / < 5mA @ 3Pin
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	C14 - L 100 x W 50 x H 33 (mm)
	C8 - L 99 x W 50 x H 33 (mm)
Weight	210g (Ref.)



## 40 Watt Series

Desktop Type

ATS040T -  X X X

P : C6 / C14 ← O / P Voltage  
A : C8



### Features :

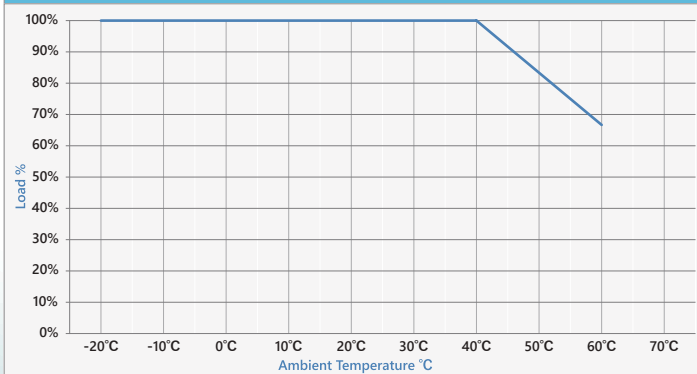
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS040T- <input type="checkbox"/> 120	12.0V	3.30A	40W
ATS040T- <input type="checkbox"/> 150	15.0V	2.67A	40W
ATS040T- <input type="checkbox"/> 190	19.0V	2.10A	40W
ATS040T- <input type="checkbox"/> 200	20.0V	2.00A	40W
ATS040T- <input type="checkbox"/> 240	24.0V	1.67A	40W
ATS048T-A480	48.0V	1.00A	48W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1A Max. / 1.2A Max. for ATS048T-A480
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6,C8,C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA @ 2Pin / < 5mA @ 3Pin
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 100 x W 50 x H 33 (mm)
Weight	200g (Ref.)



## 50 Watt Series

Desktop Type

ATS050A1 - □ X X X

A : C8

G : C6

P : C14

→ O / P Voltage

### Features :

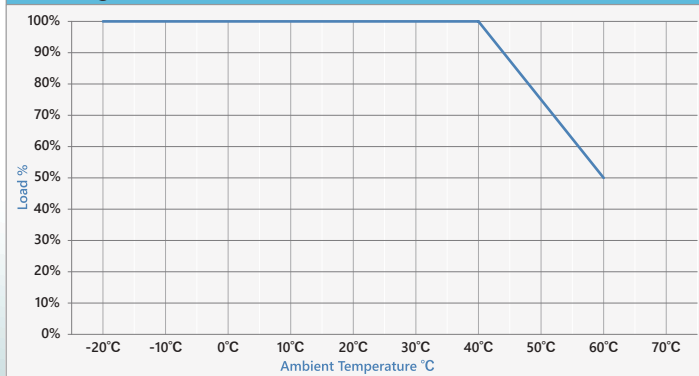
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS050A1-□090	9.0V	5.00A	45W
ATS050A1-□120	12.0V	4.20A	50W
ATS050A1-□150	15.0V	3.34A	50W
ATS050A1-□180	18.0V	2.78A	50W
ATS050A1-□190	19.0V	2.64A	50W
ATS050A1-□240	24.0V	2.10A	50W
ATS050A1-□480	48.0V	1.05A	50W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.2A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6,C8,C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA @ 2Pin / < 5mA @ 3Pin
Efficiency	DoE Level VI, ErP Stage 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L115 x W48.5 x H32.1 (mm)
Weight	210g (Ref.)



## 60 Watt Series

Wall Mount Type  
USA / Japan / Taiwan / Europe

ATS060T - W X X X □

O / P Voltage ← U : US Plug  
E : EU Plug

### Features :

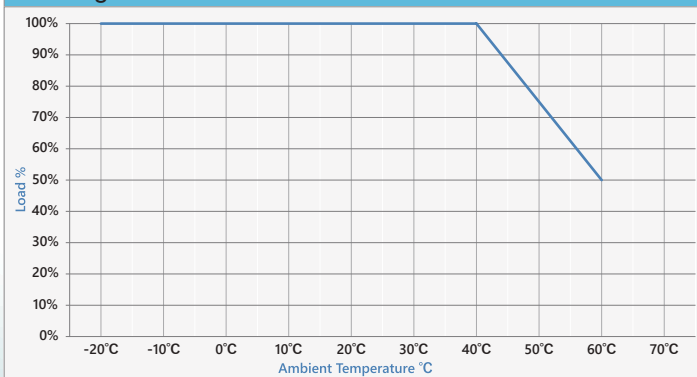
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS060T-W120□	12.0V	5.00A	60W
ATS060T-W150□	15.0V	4.00A	60W
ATS060T-W180□	18.0V	3.33A	60W
ATS060T-W190□	19.0V	3.15A	60W
ATS060T-W240□	24.0V	2.50A	60W
ATS060T-W300□	30.0V	2.00A	60W
ATS060T-W480□	48.0V	1.25A	60W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.5A Max.
Protection	Internal Primary Current Fuse
Configuration	U for US Plug E for EU Plug

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C, by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	U - L 95 x W 35.5 x H 77 (mm)
	E - L 95 x W 35.5 x H 92 (mm)
Weight	275g (Ref.)





## 65 Watt Series

Desktop Type

ATS065T -  X X X

P : C6 / C14 ←  → O / P Voltage  
A : C8

### Features :

- IEC/EN/UL 62368-1
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS065T- <input type="checkbox"/> 120	12.0V	5.00A	60W
ATS065T- <input type="checkbox"/> 135	13.5V	4.82A	65W
ATS065T- <input type="checkbox"/> 150	15.0V	4.34A	65W
ATS065T- <input type="checkbox"/> 160	16.0V	4.07A	65W
ATS065T- <input type="checkbox"/> 180	18.0V	3.62A	65W
ATS065T- <input type="checkbox"/> 190	19.0V	3.43A	65W
ATS065T- <input type="checkbox"/> 200	20.0V	3.25A	65W
ATS065T- <input type="checkbox"/> 240	24.0V	2.71A	65W
ATS065T- <input type="checkbox"/> 241(*)	24.0V	2.71A	65W
ATS065T-P242(*)	24.0V	2.71A	65W
ATS072T- <input type="checkbox"/> 240	24.0V	3.00A	72W
ATS065T- <input type="checkbox"/> 300	30.0V	2.17A	65W
ATS065T- <input type="checkbox"/> 320	32.0V	2.04A	65W
ATS065T- <input type="checkbox"/> 321(*)	32.0V	2.04A	65W
ATS065T-P375	37.5V	1.73A	65W
ATS065T- <input type="checkbox"/> 480	48.0V	1.36A	65W
ATS065T- <input type="checkbox"/> 560	56.0V	1.17A	65W

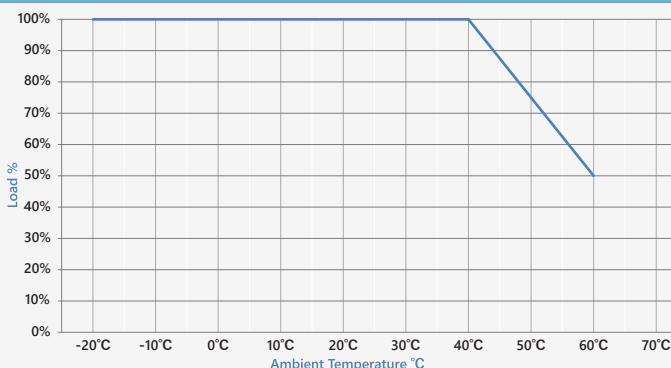
(\*) With peak current design

ATS065T-241 with peak current 11.0A

ATS065T- P242 with peak current 11.0A

ATS065T-321 with peak current 3.9A

### Derating Curve



Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.4A Max. for 65W / 1.6A Max. for 72W
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6,C8,C14

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Electrical	
Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA @ 2Pin / < 5mA @ 3Pin
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032 EN61000-3-2,3 EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension	L115 x W53 x H38 (mm)
Weight	310g (Ref.)



## 65 Watt Series

Desktop Type

ATS065A1 - □ X X X

A : C8  
G : C6  
P : C14

→ O / P Voltage

### Features :

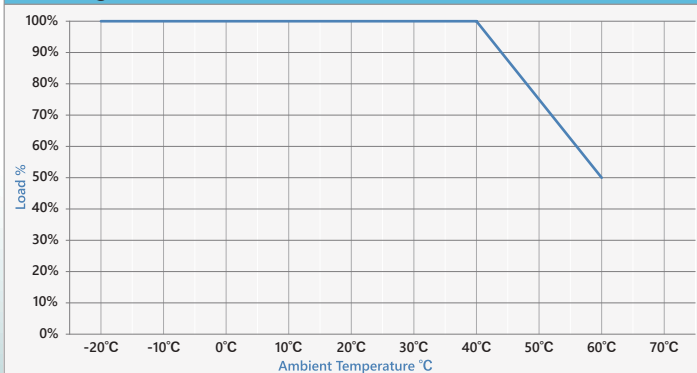
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS065A1-□120	12.0V	5.00A	60W
ATS065A1-□150	15.0V	4.34A	65W
ATS065A1-□160	16.0V	4.07A	65W
ATS065A1-□180	18.0V	3.62A	65W
ATS065A1-□190	19.0V	3.43A	65W
ATS065A1-□240	24.0V	2.71A	65W
ATS065A1-□480	48.0V	1.36A	65W
ATS065A1-□560	56.0V	1.17A	65W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.4A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6,C8,C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA @ 2Pin / < 5mA @ 3Pin
Efficiency	DoE Level VI, ErP Stage 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	2,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L115 x W48.5 x H32.1 (mm)
Weight	220g (Ref.)



## 90 Watt Series

Desktop Type

ATS090A1 - □ X X X

G : C6  
P : C14

→ O / P Voltage

### Features :

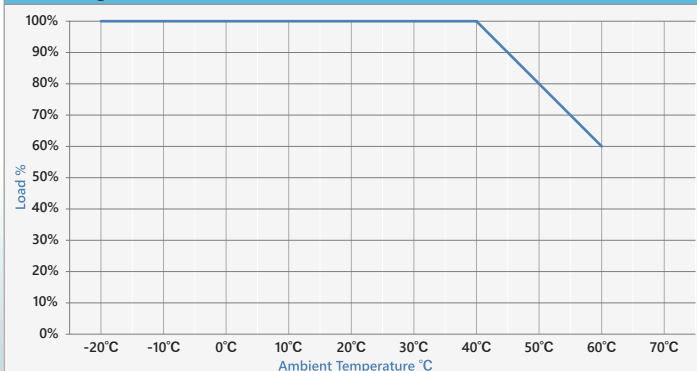
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS090A1-□120	12.0V	7.50A	90W
ATS090A1-□150	15.0V	6.00A	90W
ATS090A1-□160	16.0V	5.63A	90W
ATS090A1-□180	18.0V	5.00A	90W
ATS090A1-□190	19.0V	4.70A	89.3W
ATS090A1-□240	24.0V	3.75A	90W
ATS090A1-□480	48.0V	1.88A	90W
ATS090A1-□560	56.0V	1.60A	90W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.2A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6,C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

Topology	LLC
Dielectric Withstand	3,000VAC Primary - Secondary
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI, ErP Stage 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C, by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 133.5 x W 53.5 x H 33 (mm)
Weight	330g (Ref.)



## 120 Watt Series

Desktop Type

ATS120A1 - P X X X

P : C6 / C14 ← → O / P Voltage

### Features :

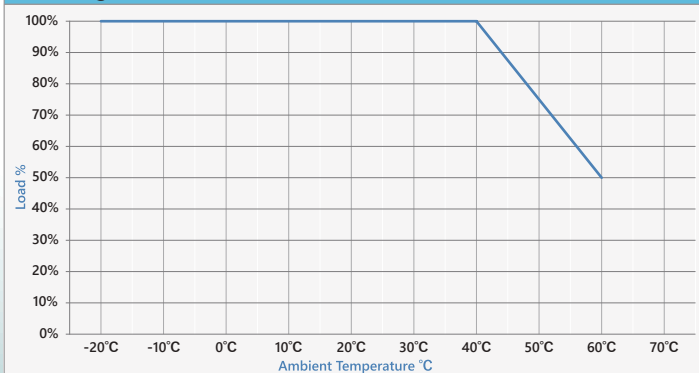
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS120A1-P120	12.0V	9.00A	108W
ATS120A1-P150	15.0V	8.00A	120W
ATS120A1-P160	16.0V	7.50A	120W
ATS120A1-P190	19.0V	6.30A	120W
ATS120A1-P240	24.0V	5.00A	120W
ATS120A1-P480	48.0V	2.50A	120W
ATS120A1-P560	56.0V	2.14A	120W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.6A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6, C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

Topology	LLC
Dielectric Withstand	3,000VAC Primary - Secondary
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI, ErP Stage 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 140.5 × W 60 × H 35 (mm)
Weight	390g (Ref.)



## 160 Watt Series

Desktop Type

ATS160A1 - □ X X X

G : C6

P : C14

→ O / P Voltage

### Features :

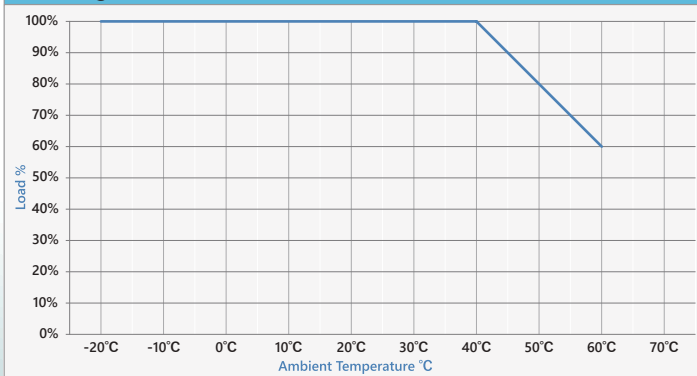
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS160A1-□120	12.0V	12.50A	150W
ATS160A1-□150	15.0V	10.00A	150W
ATS160A1-□190	19.0V	8.40A	160W
ATS160A1-□240	24.0V	6.60A	160W
ATS160A1-□480	48.0V	3.30A	160W
ATS160A1-□560	56.0V	2.86A	160W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	2.2A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6, C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

Topology	LLC
Dielectric Withstand	3,000VAC Primary - Secondary
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI, ErP Stage 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 164.5 × W 66 × H 34.8 (mm)
Weight	500g (Ref.)



## 200 Watt Series

Desktop Type

ATS200A1 - □ X X X

G : C6  
P : C14

→ O / P Voltage

### Features :

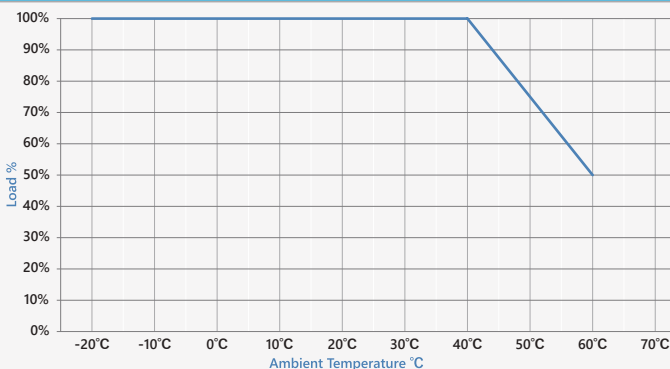
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS200A1-□120	12.0V	16.00A	192W
ATS200A1-□190	19.0V	10.50A	200W
ATS200A1-□240	24.0V	8.30A	200W
ATS200A1-□480	48.0V	4.17A	200W
ATS200A1-□560	56.0V	3.58A	200W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	2.4 A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6, C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

Topology	LLC
Dielectric Withstand	3,000VAC Primary - Secondary
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI, ErP Stage 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 175.2 × W 74 × H 42 (mm)
Weight	738g (Ref.)



## 240 Watt Series

Desktop Type

ATS240A1 - P X X X

P : C14

O / P Voltage



### Features :

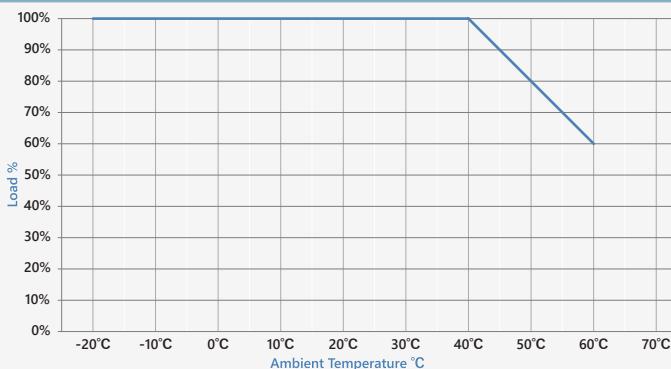
- IEC/EN/UL 62368-1 3rd Edition
- 100-240 VAC Universal Input
- Regulated Output with Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS240A1-P120	12.0V	20.00A	240W
ATS240A1-P190	19.0V	12.63A	240W
ATS240A1-P240	24.0V	10.00A	240W
ATS240A1-P480	48.0V	5.00A	240W
ATS240A1-P560	56.0V	4.28A	240W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	3.3A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

Topology	LLC
Dielectric Withstand	3,000VAC Primary - Secondary
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI, ErP Stage 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 183.2 × W 81 × H 42.3 (mm)
Weight	860g (Ref.)



## 300 Watt Series

Desktop Type

ATS300A1 - P X X X

P : C14 ← → O / P Voltage



### Features :

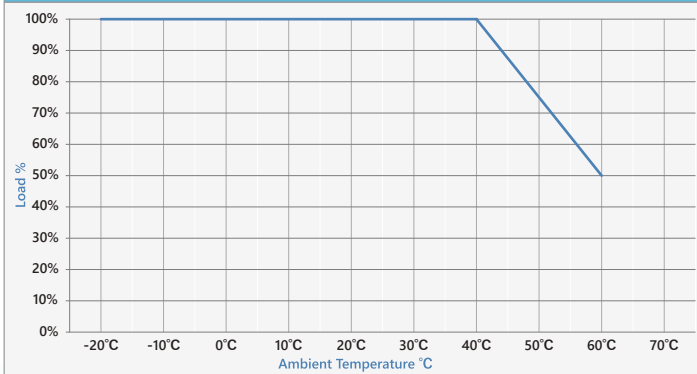
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS300A1-P120	12.0V	24.00A	288W
ATS300A1-P190	19.0V	15.79A	300W
ATS300A1-P240	24.0V	12.50A	300W
ATS300A1-P480	48.0V	6.25A	300W
ATS300A1-P560	56.0V	5.36A	300W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	3.5A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

Topology	LLC
Dielectric Withstand	3,000VAC Primary - Secondary
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 204 × W 94 × H 43.5 (mm)
Weight	1,110g (Ref.)





# USB Type-C P.D. 45 / 65 Watt Series

Desktop Type



## Features :

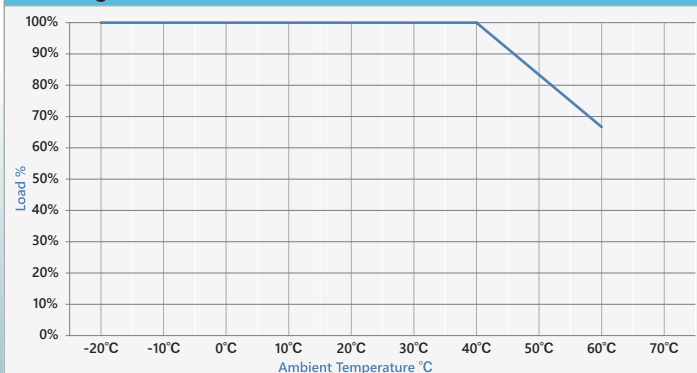
- IEC/EN/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Power Delivery 2.0
- System control through CC1
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
APD045T-A200	5.0V	3.00A	15W
	9.0V	3.00A	27W
	12.0V	3.00A	36W
	15.0V	3.00A	45W
	20.0V	2.25A	45W
APD065T-A200	5.0V	3.00A	15W
	9.0V	3.00A	27W
	12.0V	3.00A	36W
	15.0V	3.00A	45W
	19.0V	3.43A	65W
	20.0V	3.25A	65W

## Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	45W : 1.2A Max. / 65W : 1.6A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C8

## Derating Curve



## Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

## Electrical

Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA
Efficiency	DoE Level VI, ErP Stage 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

## Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

## Mechanical

Case Dimension	APD045T : L 99 x W 33 x H 50 (mm)
	APD065T : L 119 x W 60 x H 36 (mm)
Weight	APD045T : 190g (Ref.)
	APD065T : 285g (Ref.)





I.T.E.

Medical

# USB Type-C P.D. 45 / 65 Watt Series

Wall Mount Type  
USA / Japan / Taiwan / AC Plug Changeable

ATN045A3 - W200

U : US Plug / Changeable Plug  
V : Changeable Plug

ATN065A3 - W200

U : US Plug / Changeable Plug  
V : Changeable Plug



### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- IEC/EN/UL 62368-1 3rd Edition
- Means of Protection : 2 X MOPP
- 100-240VAC Universal Input
- P.D. 3.0 / QC 4.0+ / QC 4.0
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

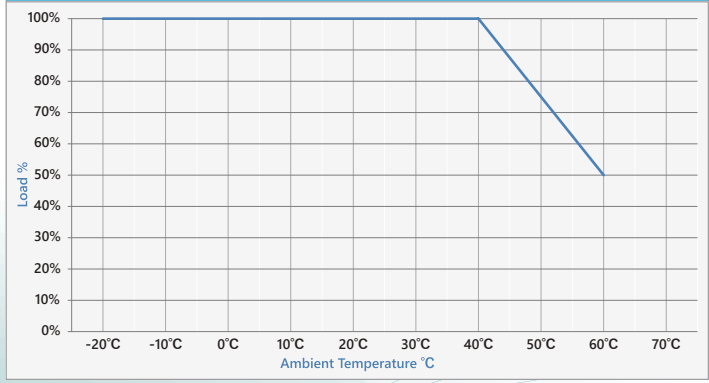
Model	O/P Voltage	O/P Current	Watt
ATN045A3-W200 <input type="checkbox"/>	5.0V	3.00A	15W
	9.0V	3.00A	27W
	12.0V	3.00A	36W
	15.0V	3.00A	45W
	20.0V	2.25A	45W
ATN065A3-W200 <input type="checkbox"/>	5.0V	3.00A	15W
	9.0V	3.00A	27W
	12.0V	3.00A	36W
	15.0V	3.00A	45W
	20.0V	3.25A	65W

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	45W : 1A-0.5A / 65W : 1.6A-0.7A
Protection	Internal Primary Current Fuse
Configuration	U for US Plug / V for Changeable Plug

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 200m Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Electrical	
Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Efficiency	Meet DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Derating Curve



Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension	L 53.5 × W 31.5 × H 58 (mm)
Weight	ATN045A3 : 125g (Ref.)
	ATN065A3 : 130g (Ref.)

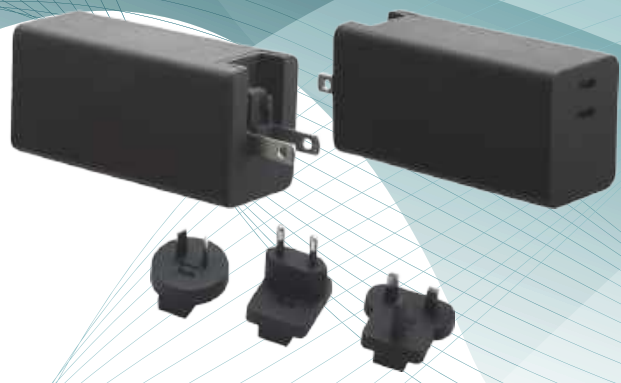


RoHS



I.T.E.

Medical



# Dual USB Type-C P.D. 100 Watt GaN Series

Wall Mount Type  
USA / Japan / Taiwan / AC Plug Changeable

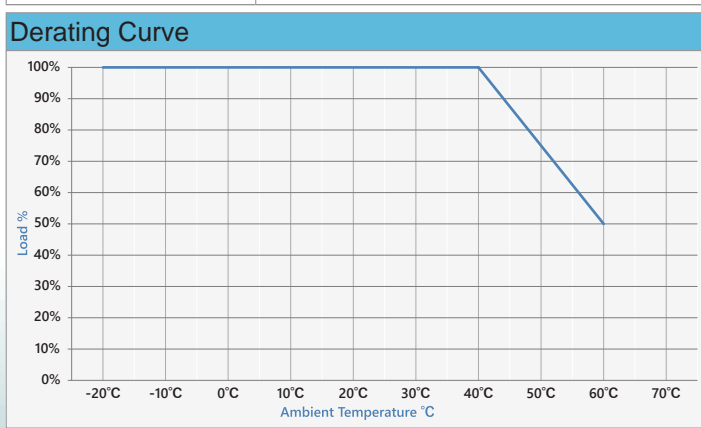
ATN100A3 - W200

U : US Plug / Changeable Plug  
V : Changeable Plug

- Features :**
- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
  - EMC : IEC60601-1-2 (Edition 4.1)
  - IEC/EN/UL 62368-1 3rd Edition
  - Means of Protection : 2 X MOPP
  - 100-240VAC Universal Input
  - P.D. 3.0 / QC 4.0+ / QC 4.0
  - Regulated Output With Low Ripple Noise
  - Safety Agency Requirements and EMI/EMS Certified
  - Modified and Custom Design Available
  - 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATN100A3-W200 <input type="checkbox"/>	5.0V	3.00A	15W
	9.0V	3.00A	27W
	12.0V	3.00A	36W
	15.0V	3.00A	45W
	20.0V	5.00A	100W

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.3A-0.5A
Protection	Internal Primary Current Fuse
Configuration	U for US Plug / V for Changeable Plug

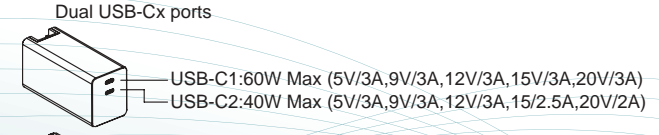
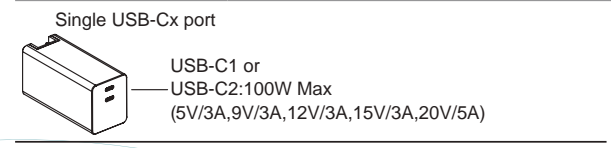


Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 100m Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Electrical	
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Efficiency	Meet DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension	L 44 × W 35 × H 87 (mm)
Weight	230g (Ref.)



RoHS



# GaN FET Technology

## 120 Watt Series

Small Size Desktop Type

ATS120TS - P X X X

P : C6 / C14 ← → O / P Voltage

### Features :

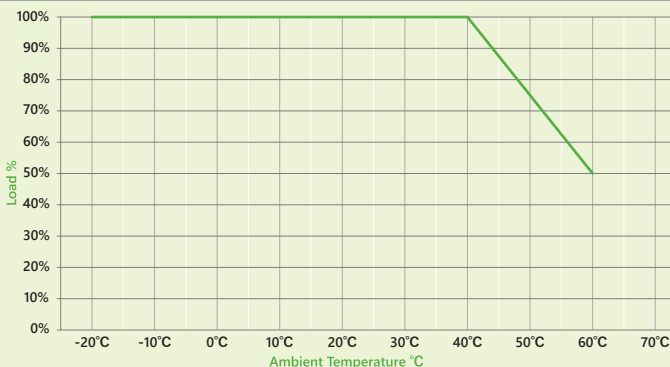
- IEC/EN/UL 62368-1 3rd Edition
- 100-240 VAC Universal Input
- Gallium Nitride Based Design
- High Power Density : 9.1W / in<sup>3</sup>
- With 200kHz Switching Frequency
- Efficiency up to 94%
- Regulated Output with Low Ripple Noise
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS120TS-P120	12.0V	9.00A	108W
ATS120TS-P190	19.0V	6.30A	120W
ATS120TS-P200	20.0V	6.00A	120W
ATS120TS-P240	24.0V	5.00A	120W
ATS120TS-P480	48.0V	2.50A	120W
ATS120TS-P560	56.0V	2.14A	120W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.6A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6, C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

Topology	LLC
Dielectric Withstand	3,000VAC Primary - Secondary
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 132 × W 51 × H 32 (mm)
Weight	336g (Ref.)



# GaN FET Technology

## 160 Watt Series

Small Size Desktop Type

ATS160TS -  X X X

P : C6 / C14 ←  → O / P Voltage  
A : C8



### Features :

- IEC/EN/UL 62368-1 3rd Edition
- 100-240 VAC Universal Input
- Gallium Nitride Based Design
- High Power Density : 10.0W / in<sup>3</sup>
- With 200kHz Switching Frequency
- Efficiency up to 95%
- Regulated Output with Low Ripple Noise
- Modified and Custom Design Available
- 1 Year Warranty

### Output

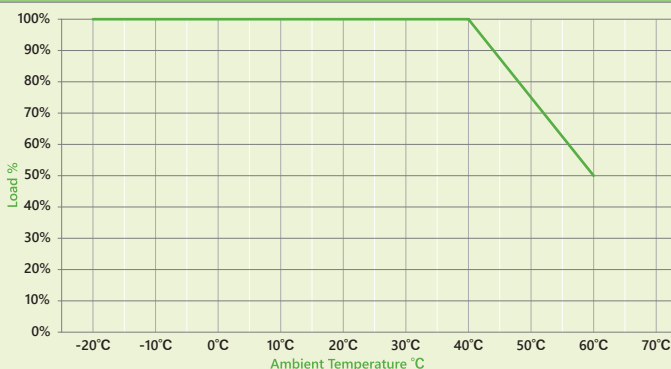
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Model	O/P Voltage	O/P Current	Watt
ATS160TS- <input type="checkbox"/> 120	12.0V	12.50A	150W
ATS160TS- <input type="checkbox"/> 190	19.0V	8.40A	160W
ATS160TS- <input type="checkbox"/> 240	24.0V	6.60A	160W
ATS160TS- <input type="checkbox"/> 480	48.0V	3.30A	160W
ATS160TS- <input type="checkbox"/> 560	56.0V	2.86A	160W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	2.2A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6, C8, C14

### Derating Curve



### Electrical

Topology	LLC
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.5mA @ 2Pin / < 5mA @ 3Pin
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	C6 & C14 - L 161 × W 54.2 × H 33.2 (mm)
	C8 - L 150 × W 54 × H 33 (mm)
Weight	530g (Ref.)



# GaN FET Technology

## 200 Watt Series

Small Size Desktop Type

ATS200TS -  X X X

P : C6 / C14 ←  → O / P Voltage  
A : C8



### Features :

- IEC/EN/UL 62368-1
- 100-240 VAC Universal Input
- Gallium Nitride Based Design
- High Power Density : 12.5W / in<sup>3</sup>
- With 250kHz Switching Frequency
- Efficiency up to 95%
- Regulated Output with Low Ripple Noise
- Modified and Custom Design Available
- 1 Year Warranty

### Output

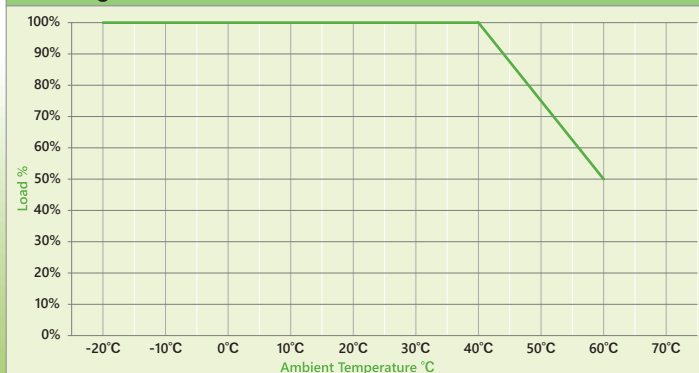
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Model	O/P Voltage	O/P Current	Watt
ATS200TS- <input type="checkbox"/> 120	12.0V	16.0A	192W
ATS200TS- <input type="checkbox"/> 180	18.0V	11.1A	200W
ATS200TS- <input type="checkbox"/> 190	19.0V	10.5A	200W
ATS200TS- <input type="checkbox"/> 191	19.5V	10.2A	200W
ATS200TS- <input type="checkbox"/> 200	20.0V	10.0A	200W
ATS200TS- <input type="checkbox"/> 240	24.0V	8.3A	200W
ATS200TS- <input type="checkbox"/> 480	48.0V	4.2A	200W
ATS200TS- <input type="checkbox"/> 560	56.0V	3.6A	200W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	2.4A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6, C8, C14

### Derating Curve



### Electrical

Topology	LLC
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.5mA @ 2Pin / < 5mA @ 3Pin
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	C6 & C14 - L 161 × W 54.2 × H 33.2 (mm)
	C8 - L 150 × W 54 × H 33 (mm)
Weight	560g (Ref.)

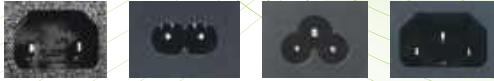


# GaN FET Technology 200 Watt Series

Small Size Desktop Type

ATM200TS -  X X X

P : C6 / C14 ← O / P Voltage  
A : C8 / C18

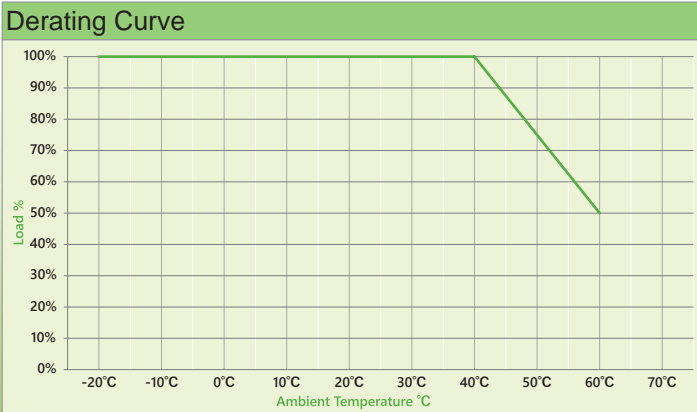


### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- IEC/EN/ANSI/AAMI HA60601-1-11 (Class II Only)
- EMC : IEC60601-1-2 (Edition 4.1)
- 100-240 VAC Universal Input
- Gallium Nitride Based Design
- High Power Density : 11W / in<sup>3</sup>
- With 250kHz Switching Frequency
- Means of Protection: 2 X MOPP
- Efficiency up to 95%
- Regulated Output with Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM200TS- <input type="checkbox"/> 120	12.0V	16.0A	192W
ATM200TS- <input type="checkbox"/> 150	15.0V	13.0A	195W
ATM200TS- <input type="checkbox"/> 190	19.0V	10.5A	200W
ATM200TS- <input type="checkbox"/> 240	24.0V	8.3A	200W
ATM200TS- <input type="checkbox"/> 480	48.0V	4.2A	200W

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	2.4A-0.9A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6, C8, C14, C18



Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Electrical	
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension	L 166.5 × W 54.2 × H 33 (mm)
Weight	620g (Ref.)



# GaN FET Technology

## 250 Watt Series

Small Size Desktop Type

ATM250TS -  X X X

P : C14  
A : C18

O / P Voltage



### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- IEC/EN/ANSI/AAMI HA60601-1-11 (Class II Only)
- EMC : IEC60601-1-2 (Edition 4.1)
- IEC/EN/UL 62368-1 3rd Edition
- 100-240 VAC Universal Input
- Gallium Nitride Based Design
- High Power Density : 11W / in<sup>3</sup>
- With 250kHz Switching Frequency
- Means of Protection: 2 X MOPP
- Efficiency up to 95%
- Regulated Output with Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

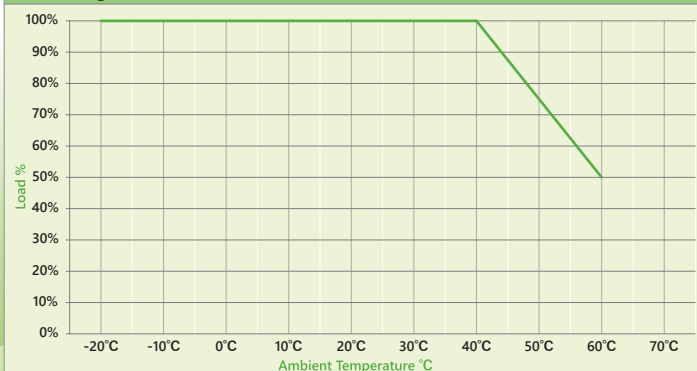
Model	O/P Voltage	O/P Current	Watt
ATM250TS- <input type="checkbox"/> 120	12.0V	19.00A	228W
ATM250TS- <input type="checkbox"/> 190	19.0V	13.20A	250W
ATM250TS- <input type="checkbox"/> 240	24.0V	10.40A	250W
ATM250TS- <input type="checkbox"/> 480	48.0V	5.20A	250W
ATM250TS- <input type="checkbox"/> 560(*)	56.0V	4.48A	250W

(\*) I.T.E. Only

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	2.9A-1.3A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14, C18

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55032 / EN55011
	EN61000-3-2,3
	EN55035 / EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 173 × W 67 × H 32.1 (mm)
Weight	855g (Ref.)





# GaN FET Technology

## 270 Watt Series

Slim Size Desktop Type

ATS270A1 - P X X X

P : C14 ← → O / P Voltage



### Features :

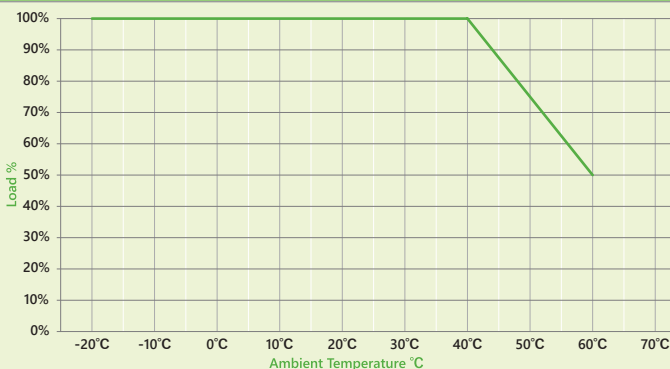
- IEC/EN/UL 62368-1 3rd Edition
- 100-240 VAC Universal Input
- Gallium Nitride Based Design
- High Power Density : 12.6W / in<sup>3</sup>
- Height : Less than 1"
- Efficiency up to 95%
- Regulated Output with Low Ripple Noise
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS270A1-P190	19.0V	14.20A	270W
ATS270A1-P191	19.5V	13.80A	270W
ATS270A1-P240	24.0V	11.25A	270W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	3.5A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

Topology	LLC
Dielectric Withstand	3,000VAC Primary - Secondary
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 170 × W 84.3 × H 24.5 (mm)
Weight	630g (Ref.)



# GaN FET Technology

## 300 Watt Series

Small Size Desktop Type

ATM300TS -  X X X

P : C14 ←  → O / P Voltage  
A : C18

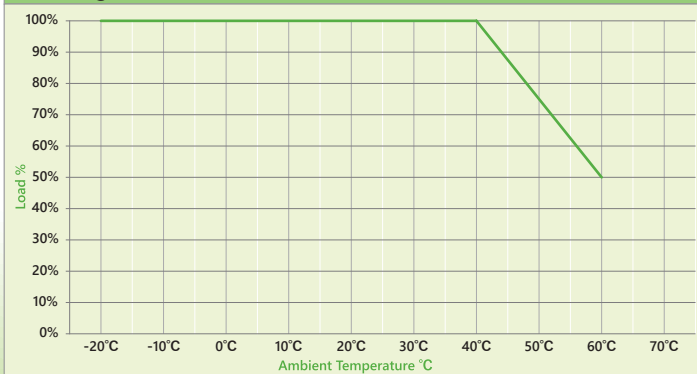
### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- IEC/EN/ANSI/AAMI HA60601-1-11 (Class II Only)
- EMC : IEC60601-1-2 (Edition 4.1)
- IEC/EN/UL 62368-1 3rd Edition
- 100-240 VAC Universal Input
- Gallium Nitride Based Design
- High Power Density : 9W / in<sup>3</sup>
- With 200kHz Switching Frequency
- Means of Protection: 2 X MOPP
- Efficiency up to 95%
- Regulated Output with Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM300TS- <input type="checkbox"/> 120	12.0V	24.00A	288W
ATM300TS- <input type="checkbox"/> 150	15.0V	20.00A	300W
ATM300TS- <input type="checkbox"/> 190	19.0V	15.79A	300W
ATM300TS- <input type="checkbox"/> 240	24.0V	12.50A	300W
ATM300TS- <input type="checkbox"/> 480	48.0V	6.25A	300W
ATM300TS- <input type="checkbox"/> 560(*)	56.0V	5.36A	300W

(\*) I.T.E. Only

### Derating Curve



Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	3.5A-1.5A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14, C18

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Electrical	
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100μA
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI
EMC Standards	EN55032 / EN55011
	EN61000-3-2,3
	EN55035 / EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension	L 183 × W 85 × H 35 (mm)
Weight	1,060g (Ref.)



# GaN FET Technology

## 450 Watt Series

Desktop Type

ATM450A2 - P X X X

P : C14 ← → O / P Voltage



### Features :

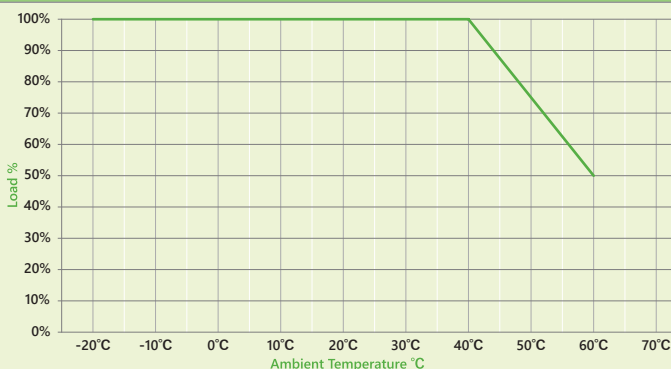
- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- IEC/EN/UL 62368-1 3rd Edition
- 100-240 VAC Universal Input
- Gallium Nitride Based Design
- Means of Protection: 2 X MOPP
- Efficiency up to 95%
- Regulated Output with Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM450A2-P120	12.0V	33.34A	400W
ATM450A2-P190	19.0V	23.60A	450W
ATM450A2-P240	24.0V	18.75A	450W
ATM450A2-P480	48.0V	9.38A	450W
ATM450A2-P560	56.0V	8.05A	450W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	5.3A-2.2A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

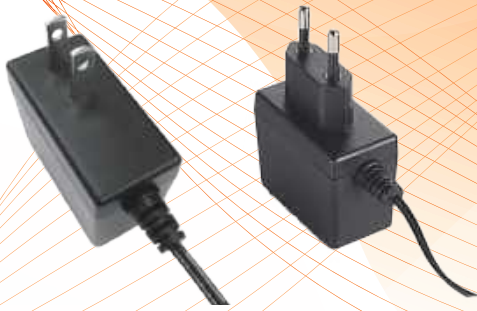
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	DoE Level VI
EMC Standards	EN55032 / EN55011
	EN61000-3-2,3
	EN55035 / EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 254 × W 116 × H 47 (mm)
Weight	1,600g (Ref.)



## 6 Watt Series

Wall Mount Type  
USA / Europe

ATM006T - W X X X □

O / P Voltage ←

→ U : US Plug  
E : EU Plug

### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection : 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Model	O/P Voltage	O/P Current	Watt
ATM006T-W050□	5.0V	1.2A	6.0W
ATM006T-W060□	6.0V	1.0A	6.0W
ATM006T-W075□	7.5V	1.0A	7.5W
ATM006T-W090□	9.0V	0.7A	6.3W
ATM006T-W120□	12.0V	0.5A	6.0W

### Electrical

Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Efficiency	Meet DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

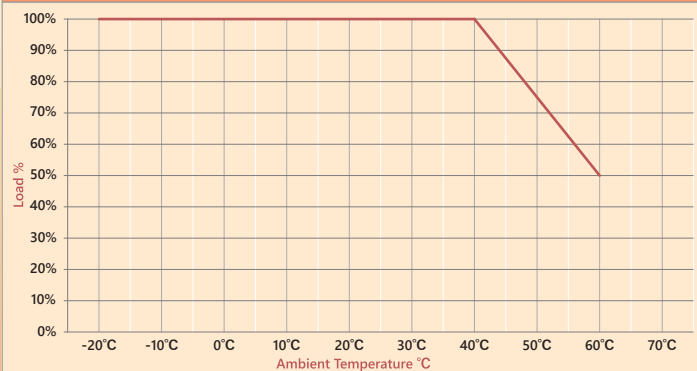
### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	0.19A-0.1A
Protection	Internal Primary Current Fuse
Configuration	U for US Plug
	E for EU Plug

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	3,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Derating Curve



### Mechanical

Case Dimension	U - L 56 × W 28 × H 59 (mm)
	E - L 56 × W 28 × H 79 (mm)
Weight	U : 68g E : 80g (Ref.)

**NEW**

**I.T.E.**

**Medical**

# 12 Watt Series

Wall Mount Type  
USA / Europe / UK / Australia /  
China / AC Plug Changeable

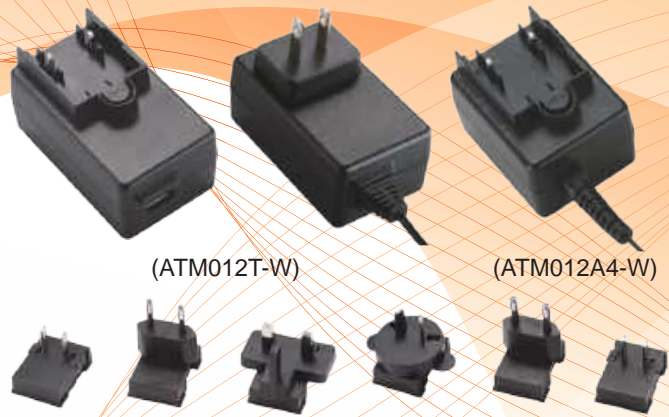
**ATM012A4 - W X X X V**

O / P Voltage ← V : Changeable Plug

**ATM012T - W X X X □ □**

O / P Voltage  
U : US Plug  
E : EU Plug  
B : UK Plug  
A : AU Plug  
C : CN Plug  
V : Changeable Plug

Blank : with DC cord  
U : with USB port



## Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- IEC/EN/UL 62368-1 3rd Edition
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM012T-W033□	3.3V	2.00A	6.60W
ATM012T-W050□□	5.0V	2.00A	10.00W
ATM012T-W051□	5.0V	3.00A	15.00W
ATM012T-W060□	5.9V	2.00A	11.80W
ATM012T-W062□	6.2V	2.00A	12.40W
ATM012T-W090□	9.0V	1.20A	10.80W
ATM012T-W120□	12.0V	1.00A	12.00W
ATM012T-W150□	15.0V	0.80A	12.00W
ATM012T-W180□	18.0V	0.67A	12.06W
ATM012T-W240□	24.0V	0.50A	12.00W
Model	O/P Voltage	O/P Current	Watt
ATM012A4-W050V	5.00V	2.00A	10.00W
ATM012A4-W051V	5.00V	3.00A	15.00W
ATM012A4-W052V	5.10V	2.40A	12.24W
ATM012A4-W062V	6.20V	2.00A	12.40W
ATM012A4-W090V	9.00V	1.33A	11.97W
ATM012A4-W120V	12.00V	1.00A	12.00W
ATM012A4-W240V	24.00V	0.50A	12.00W

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	ATM012T : 0.32A-0.19A ATM012A4 : 0.5A-0.2A
Protection	Internal Primary Current Fuse
Configuration	U for US Plug      B for UK Plug E for EU Plug      A for AU Plug C for CN Plug V for Changeable Plug

**Derating Curve**  
See the next page

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Electrical	
Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Efficiency	Meet DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension (ATM012T)	U - L 80.2 × W 46 × H 57.5(mm)
	E - L 80.2 × W 46 × H 68.7(mm)
	B - L 80.2 × W 49.6 × H 62.7(mm)
	A - L 80.2 × W 56 × H 57.5(mm)
	C - L 80.2 × W 46 × H 57.5(mm)
	V - L 80.2 × W 46 × H 40.5(mm)
Case Dimension (ATM012A4)	L 59 × W 46 × H 40.5(mm)
Weight(ATM012T)	U : 140g E : 145g B : 148g A : 144g C : 140g V : 140g(Ref.)
Weight(ATM012A4)	116g(Ref.)



Medical

# 24 / 36 Watt Series

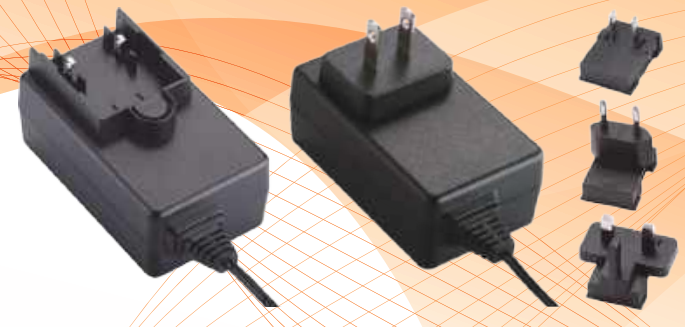
Wall Mount Type  
USA / Europe / UK / AC Plug Changeable

ATM024T - W X X X

O / P Voltage ←  → U : US Plug  
E : EU Plug  
B : UK Plug  
V : Changeable Plug

ATM036A4 - W X X X

O / P Voltage ←  → U : US Plug  
E : EU Plug  
B : UK Plug  
V : Changeable Plug



## Features :

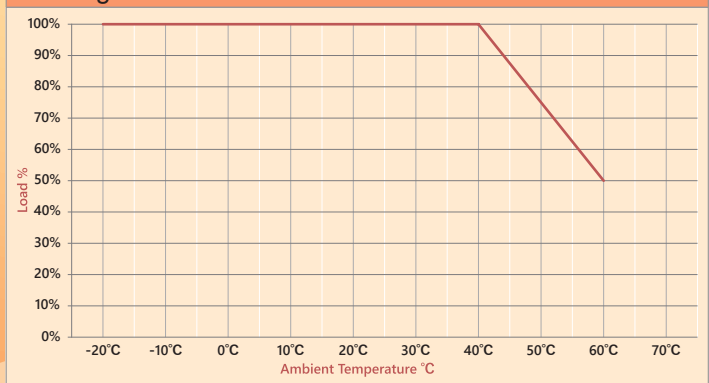
- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM024T-W050 <input type="checkbox"/>	5.0V	4.0A	20.0W
ATM024T-W090 <input type="checkbox"/>	9.0V	2.5A	22.5W
ATM024T-W120 <input type="checkbox"/>	12.0V	2.0A	24.0W
ATM024T-W150 <input type="checkbox"/>	15.0V	1.6A	24.0W
ATM024T-W240 <input type="checkbox"/>	24.0V	1.0A	24.0W
ATM024T-W480 <input type="checkbox"/>	48.0V	0.5A	24.0W

Model	O/P Voltage	O/P Current	Watt
ATM036A4-W050 <input type="checkbox"/>	5.0V	5.0A	25.0W
ATM036A4-W090 <input type="checkbox"/>	9.0V	4.0A	36.0W
ATM036A4-W120 <input type="checkbox"/>	12.0V	3.0A	36.0W
ATM036A4-W150 <input type="checkbox"/>	15.0V	2.4A	36.0W
ATM036A4-W240 <input type="checkbox"/>	24.0V	1.5A	36.0W

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	ATM024T : 0.58A-0.32A ATM036A4 : 1A-0.4A
Protection	Internal Primary Current Fuse
Configuration	U for US Plug      B for UK Plug E for EU Plug V for Changeable Plug

## Derating Curve\*



\*For ATM012T, ATM012A4, ATM024T and ATM036A4

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Electrical	
Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Efficiency	Meet DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension	U - L 80.2 × W 46 × H 57.5(mm)
	E - L 80.2 × W 46 × H 68.7(mm)
	B - L 80.2 × W 49.6 × H 62.7(mm)
	V - L 80.2 × W 46 × H 40.5(mm)
Weight	U : 140g E : 145g B : 148g V : 140g (Ref.)



# 36 Watt Series

Desktop Type

ATM036T -  X X X

P : C14

A : C8 / C18

O / P Voltage



## Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

## Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Model	O/P Voltage	O/P Current	Watt
ATM036T-□050	5.0V	5.0A	25W
ATM036T-□075	7.5V	4.0A	30W
ATM036T-□090	9.0V	4.0A	36W
ATM036T-□120	12.0V	3.0A	36W
ATM036T-□150	15.0V	2.4A	36W
ATM036T-□180	18.0V	2.0A	36W
ATM036T-□240	24.0V	1.5A	36W

## Electrical

Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

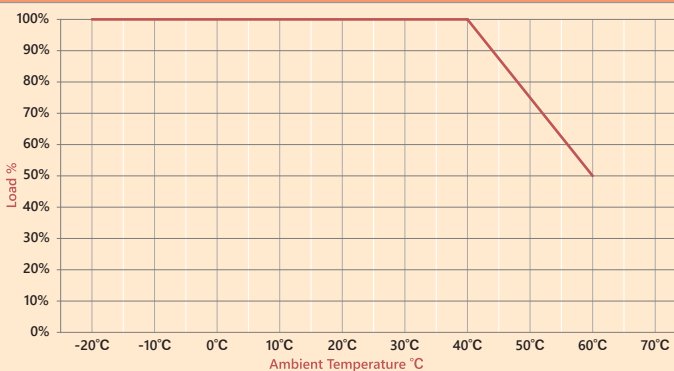
## Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.0A-0.45A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C8, C14, C18

## Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

## Derating Curve



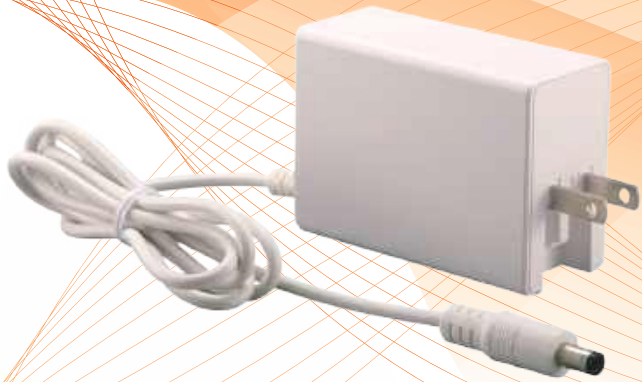
## Mechanical

Case Dimension	C14 & C18 - L 100 × W 50 × H 33 (mm)
	C8 - L 99 × W 50 × H 33 (mm)
Weight	210g (Ref.)

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**Medical**



# 65 Watt Series

Wall Mount Type  
USA / Japan / Taiwan / AC Plug Changeable

ATM065A4 - W X X X

O / P Voltage ◀ ———▶ U : US Plug / Changeable Plug  
V : Changeable Plug

### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- IEC/EN/UL 62368-1 3rd Edition
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Model	O/P Voltage	O/P Current	Watt
ATM065A4-W120 <input type="checkbox"/>	12.0V	5.00A	60W
ATM065A4-W150 <input type="checkbox"/>	15.0V	4.34A	65W
ATM065A4-W190 <input type="checkbox"/>	19.0V	3.43A	65W
ATM065A4-W240 <input type="checkbox"/>	24.0V	2.71A	65W
ATM065A4-W480 <input type="checkbox"/>	48.0V	1.36A	65W

### Electrical

Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Efficiency	Meet DoE Level VI, ErP Stage 2
EMC Standards	EN55011
	EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

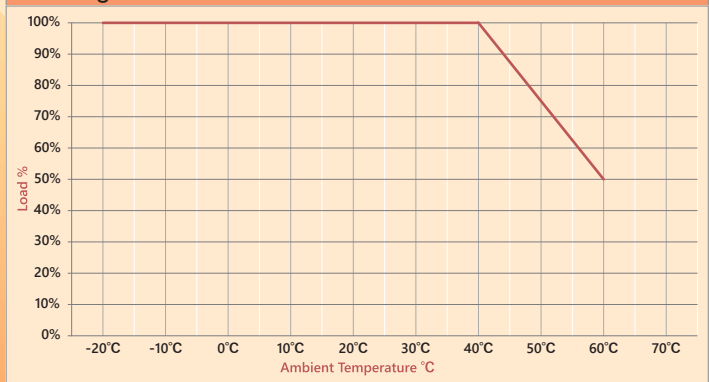
### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.6A-0.7A
Protection	Internal Primary Current Fuse
Configuration	U for US Plug / Changeable Plug
	V for Changeable Plug

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Derating Curve



### Mechanical

Case Dimension	L 53.5 × W 31.5 × H 74.5 (mm)
Weight	195g (Ref.)





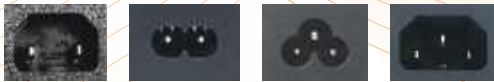


# 65 Watt Series

Desktop Type

ATM065T - □ X X X

P : C6 / C14 ← O / P Voltage  
A : C8 / C18



### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Model	O/P Voltage	O/P Current	Watt
ATM065T-□120	12.0V	5.00A	60W
ATM065T-□150	15.0V	4.34A	65W
ATM065T-□180	18.0V	3.62A	65W
ATM065T-□190	19.0V	3.43A	65W
ATM065T-□240	24.0V	2.71A	65W
ATM065T-□300	30.0V	2.17A	65W
ATM065T-□360	36.0V	1.81A	65W
ATM065T-□480	48.0V	1.36A	65W

### Electrical

Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

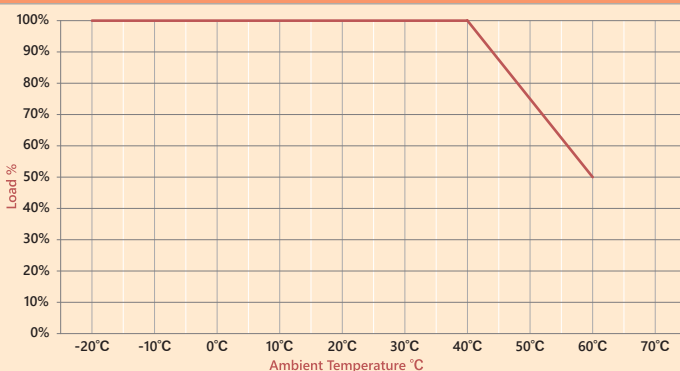
### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.6A-0.7A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6, C8, C14, C18

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Derating Curve



### Mechanical

Case Dimension	L 119 × W 60 × H 36 (mm)
Weight	310g (Ref.)

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# 90 Watt Series

Desktop Type

ATM090A4 -  X X X

A : C8 ←  → O / P Voltage  
 G : C6  
 P : C14



### Features :

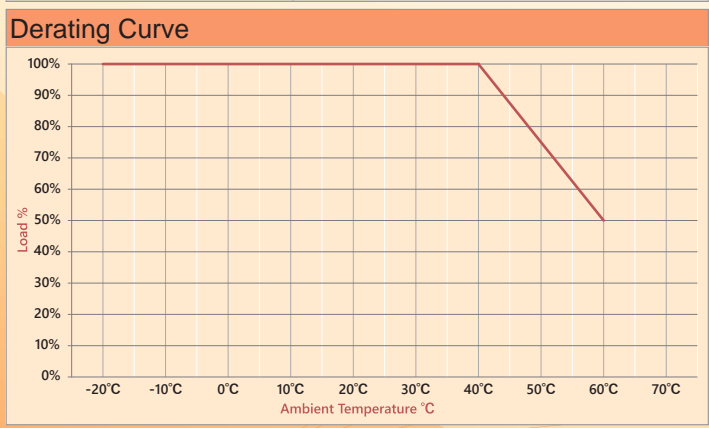
- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Model	O/P Voltage	O/P Current	Watt
ATM090A4- <input type="checkbox"/> 120	12.0V	7.50A	90.0W
ATM090A4- <input type="checkbox"/> 150	15.0V	6.00A	90.0W
ATM090A4- <input type="checkbox"/> 180	18.0V	5.00A	90.0W
ATM090A4- <input type="checkbox"/> 190	19.0V	4.70A	89.3W
ATM090A4- <input type="checkbox"/> 240	24.0V	3.75A	90.0W

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.2A-0.5A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6,C8,C14

Electrical	
Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332



Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension	L133.5 × W53.5 × H33 (mm)
Weight	330g (Ref.)

**NEW**

**Medical**



# 120 Watt Series

Desktop Type

ATM120A4 -  X X X

P : C6 / C14 ◀      ▶ O / P Voltage  
A : C8 / C18

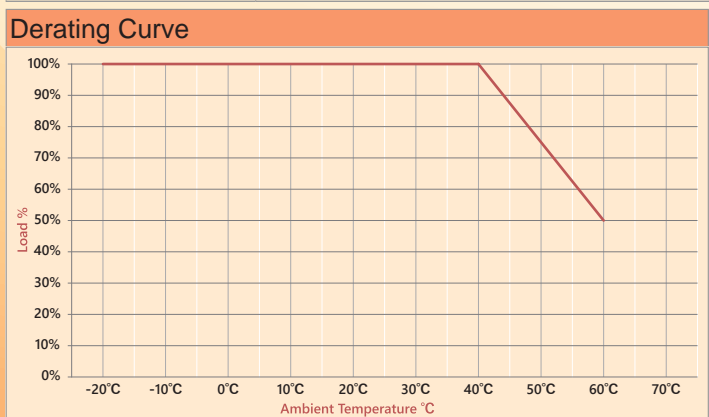


### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM120A4- <input type="checkbox"/> 120	12.0V	9.00A	108W
ATM120A4- <input type="checkbox"/> 150	15.0V	8.00A	120W
ATM120A4- <input type="checkbox"/> 180	18.0V	6.67A	120W
ATM120A4- <input type="checkbox"/> 190	19.0V	6.30A	120W
ATM120A4- <input type="checkbox"/> 240	24.0V	5.00A	120W

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.5A-0.7A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6, C8, C14, C18



Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Electrical	
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C, by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension	L 140.5 × W 60 × H 35 (mm)
Weight	390g (Ref.)

**NEW**

**Medical**



# 160 Watt Series

Desktop Type

**ATM160A4 - P X X X**

P : C6 / C14 ← → O / P Voltage



### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

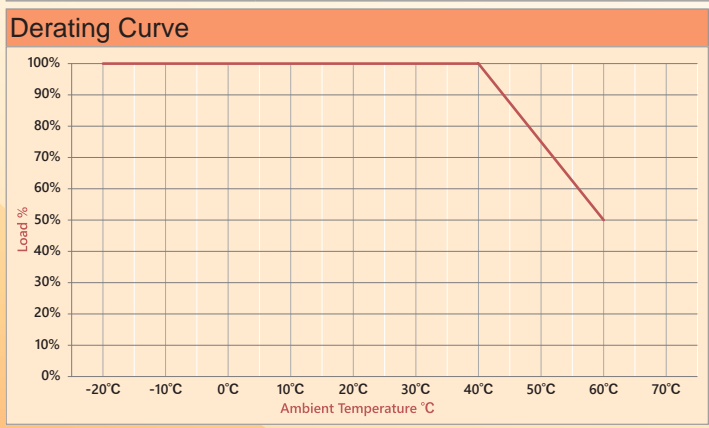
### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Model	O/P Voltage	O/P Current	Watt
ATM160A4-P120	12.0V	12.5A	150.0W
ATM160A4-P240	24.0V	6.6A	158.4W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.8A-0.9A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C6, C14



### Electrical

Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 161 × W 54.2 × H 33.2 (mm)
Weight	520g (Ref.)



# 200 Watt Series

Desktop Type

ATM200A4 -  X X X

P : C14 ←  → O / P Voltage  
A : C18



### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

### Output

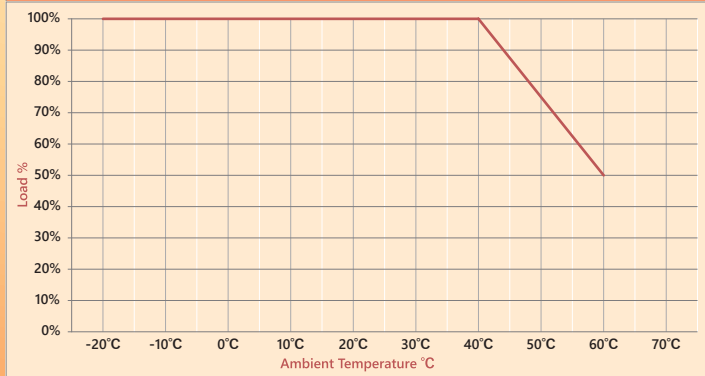
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Model	O/P Voltage	O/P Current	Watt
ATM200A4- <input type="checkbox"/> 120	12.0V	16.00A	192W
ATM200A4- <input type="checkbox"/> 150	15.0V	13.33A	200W
ATM200A4- <input type="checkbox"/> 190	19.0V	10.50A	200W
ATM200A4- <input type="checkbox"/> 240	24.0V	8.30A	200W
ATM200A4- <input type="checkbox"/> 250	25.0V	8.00A	200W
ATM200A4- <input type="checkbox"/> 480	48.0V	4.17A	200W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	2.4A-1.0A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14, C18

### Derating Curve



### Electrical

Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 173 × W 67 × H 32.1 (mm)
Weight	618g (Ref.)



## 250 Watt Series

Desktop Type

ATM250T - □ X X X

P : C14  
A : C18

→ O / P Voltage



### Features :

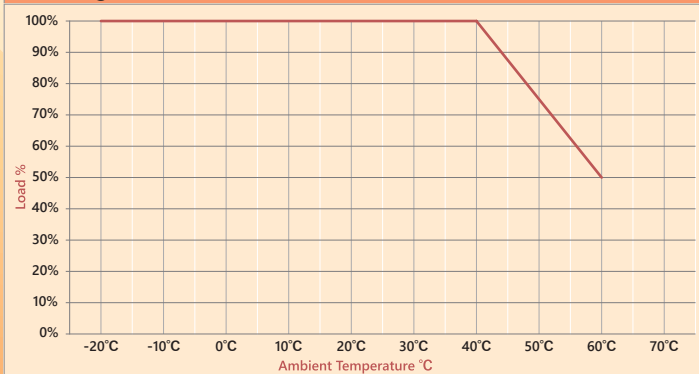
- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM250T-□120	12.0V	20.00A	240W
ATM250T-□150	15.0V	16.66A	250W
ATM250T-□190	19.0V	13.15A	250W
ATM250T-□240	24.0V	10.40A	250W
ATM250T-□480	48.0V	5.21A	250W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	3.3A-1.3A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14,C18

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 204 × W 94 × H 43.5 (mm)
Weight	1,145g (Ref.)

**NEW**

**Medical**



# 300 Watt Series

Desktop Type

ATM300A4 -  X X X

P : C14 ←  → O / P Voltage  
A : C18

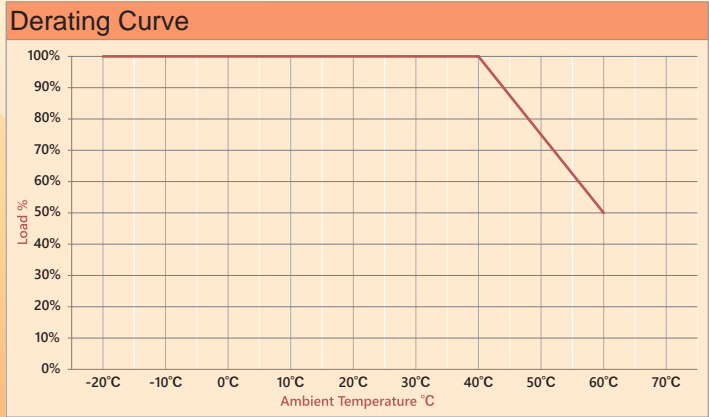


- Features :**
- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
  - EMC : IEC60601-1-2 (Edition 4.1)
  - Means of Protection: 2 X MOPP
  - 100-240VAC Universal Input
  - Regulated Output With Low Ripple Noise
  - Safety Agency Requirements and EMI/EMS Certified
  - Modified and Custom Design Available
  - 2 Years Warranty

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Model	O/P Voltage	O/P Current	Watt
ATM300A4- <input type="checkbox"/> 120	12.0V	24.0A	288W
ATM300A4- <input type="checkbox"/> 150	15.0V	20.0A	300W
ATM300A4- <input type="checkbox"/> 240	24.0V	12.5A	300W

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	3.5A-1.5A
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14,C18



Electrical	
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current (Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI
EMC Standards	EN55011
	EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Case Dimension	L 204 × W 94 × H 43.5 (mm)
Weight	1,110g (Ref.)



## 5 / 12 Watt Power Module Series

ATS005A2 - F X X X P

O / P Voltage ←

ATS012A3 - F X X X P

Q / P Voltage ←

### Features :

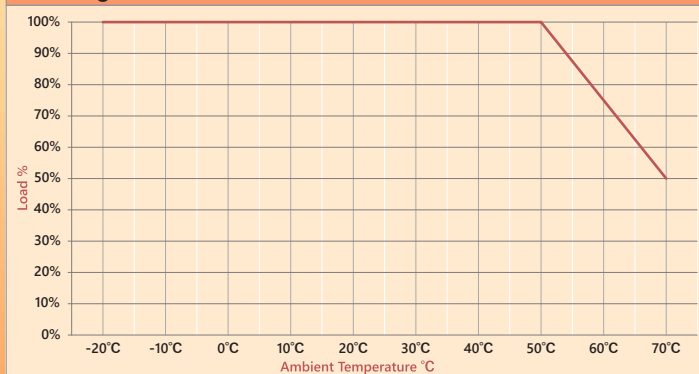
- IEC/UL 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Safety Agency Requirements and EMI/EMS Certified
- Modified and Custom Design Available
- 1 Year Warranty

Model	O/P Voltage	O/P Current	Watt
ATS005A2-F033P	3.3V	1.25A	4.125W
ATS005A2-F050P	5.0V	1.00A	5.000W
ATS005A2-F120P	12.0V	0.50A	6.000W
ATS005A2-F150P	15.0V	0.33A	4.950W
ATS005A2-F240P	24.0V	0.23A	5.520W
Model	O/P Voltage	O/P Current	Watt
ATS012A3-F033P	3.3V	2.50A	8.25W
ATS012A3-F050P	5.0V	2.00A	10.00W
ATS012A3-F090P	9.0V	1.20A	10.80W
ATS012A3-F120P	12.0V	1.00A	12.00W
ATS012A3-F150P	15.0V	0.80A	12.00W
ATS012A3-F240P	24.0V	0.50A	12.00W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	ATS005A2 : 0.19A Max. ATS012A3 : 0.31A Max.
Protection	Internal Primary Current Fuse

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

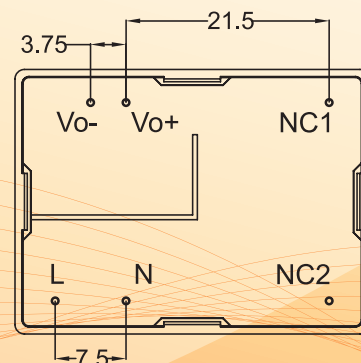
Topology	Switching Flyback
Dielectric Withstand	3,000VAC Primary - Secondary
Leakage Current	< 0.25mA
Efficiency	DoE Level VI, ErP Stage 2
EMC Standards	EN55032
	EN61000-3-2,3
	EN55035
MTBF	300,000 Calculated Hours at 25°C, by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Case Dimension	L 37.5 x W 28 x H 21 (mm)
Weight	ATS005A2 : 26g (Ref.)
	ATS012A3 : 40g (Ref.)







# Open Frame Power Supply 12 / 24 Watt Series

## ATM012T - F X X X

O / P Voltage ←

## ATM024T - F X X X □

O / P Voltage ←

W : Wafer  
Blank : 4 Industrial Pins

### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- IEC 62368-1
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

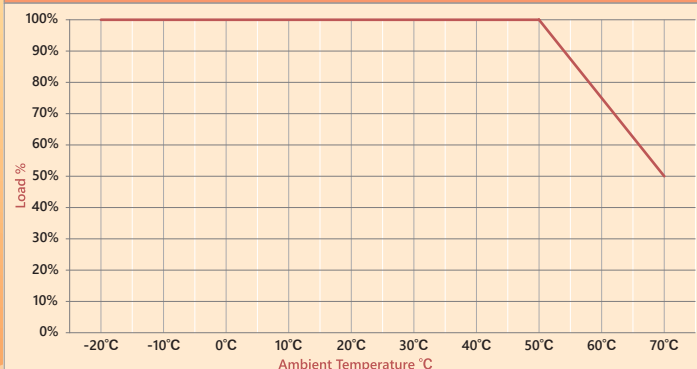
Model	O/P Voltage	O/P Current	Watt
ATM012T-F033	3.3V	2.5A	8.25W
ATM012T-F050	5.0V	2.0A	10.00W
ATM012T-F120	12.0V	1.0A	12.00W
ATM012T-F150	15.0V	0.8A	12.00W
ATM012T-F240	24.0V	0.5A	12.00W

Model	O/P Voltage	O/P Current	Watt
ATM024T-F033□	3.3V	4.5A	14.85W
ATM024T-F050□	5.0V	4.4A	22.00W
ATM024T-F120□	12.0V	2.0A	24.00W
ATM024T-F150□	15.0V	1.6A	24.00W
ATM024T-F240□	24.0V	1.0A	24.00W
ATM024T-F480□	48.0V	0.5A	24.00W

### Input

Voltage	100-240 VAC
Line Frequency	50-60Hz
Current	ATM012T : 0.29A-0.17A ATM024T : 0.59A-0.32A
Protection	Internal Primary Current Fuse

### Derating Curve



### Output

Load Regulation	± 5% (Typical)
Ripple & Noise	≤ 2% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS @Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection/ Over Voltage Protection/ Over Current Protection

### Electrical

Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current(Patient) Leakage Current	< 100µA
Efficiency	Meet DoE Level VI, ErP Stage 2
MTBF	300,000 Calculated Hours at 25°C, by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating: 20 to 80% RH Storage: 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

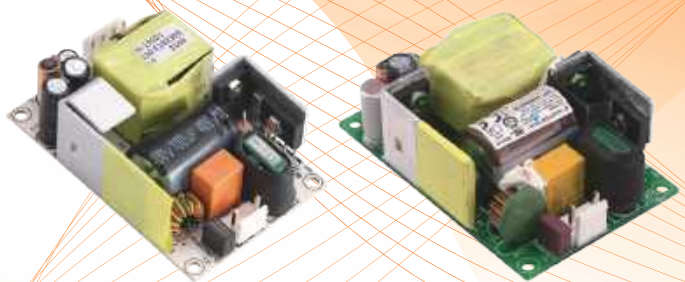
Dimension	ATM012T-F: L 65 x W 44.7 x H 24 (mm) 2.56" x 1.77" x 0.95"
	ATM024T-F: L 70 x W 48 x H 26 (mm) 2.75" x 1.89" x 0.95"
	ATM024T-F: L 89 x W 51 x H 24 (mm) (wafer) 3.5" x 2" x 0.95"
	Weight
	ATM012T : 42g (Ref.) ATM024T : 58g (Ref.)



**NEW**

**I.T.E.**

**Medical**



(ATS065A1-F)

(ATM065A4-F)

# Open Frame Power Supply 65 Watt Small Size Series

**ATS065A1 - F X X X**

O / P Voltage ←

**ATM065A4 - F X X X**

O / P Voltage ←

**Features :**

- IEC/UL 62368-1 3rd Edition
- Meet IEC 60335-1
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 1 Year Warranty

I.T.E. Version			
Model	O/P Voltage	O/P Current	Watt
ATS065A1-F050	5.0V	10.00A	50W
ATS065A1-F090	9.0V	7.20A	65W
ATS065A1-F120	12.0V	5.42A	65W
ATS065A1-F150	15.0V	4.34A	65W
ATS065A1-F190	19.0V	3.43A	65W
ATS065A1-F240	24.0V	2.71A	65W
ATS065A1-F480	48.0V	1.36A	65W

**Features :**

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- IEC/UL 62368-1 3rd Edition
- Meet IEC 60335-1
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Medical Version			
Model	O/P Voltage	O/P Current	Watt
ATM065A4-F050	5.0V	10.00A	50W
ATM065A4-F090	9.0V	7.00A	63W
ATM065A4-F120	12.0V	5.42A	65W
ATM065A4-F150	15.0V	4.34A	65W
ATM065A4-F190	19.0V	3.43A	65W
ATM065A4-F240	24.0V	2.71A	65W
ATM065A4-F480	48.0V	1.36A	65W

**Derating Curve**

See next page

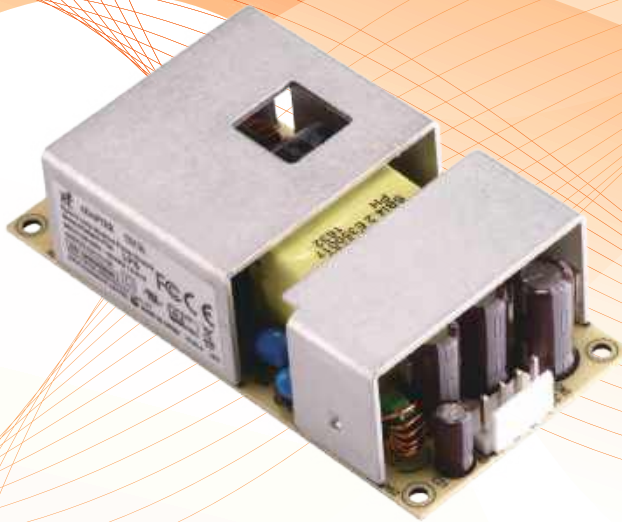
Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	ATS065A1 : 1.6A Max. ATM065A4 : 0.17-0.5A
Protection	Internal Primary Current Fuse

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS@ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Electrical	
Topology	Switching Flyback
Dielectric Withstand (for I.T.E.)	3,000VAC Primary - Secondary
Dielectric Withstand (for Medical)	4,000VAC Primary - Secondary
Leakage Current (for I.T.E.)	< 0.25mA
Touch Current(Patient) Leakage Current	< 100µA
Efficiency	Meet DoE Level VI, ErP Stage 2
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	ATS065A1-F : 5,000M ATM065A4-F : 3,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical	
Dimension	L 76 × W 51 × H 24 (mm) 3" x 2" x 1.1"
Weight	100g (Ref.)



## Open Frame Power Supply 65 Watt Series

ATM065T - F X X X

O / P Voltage ←

### Features :

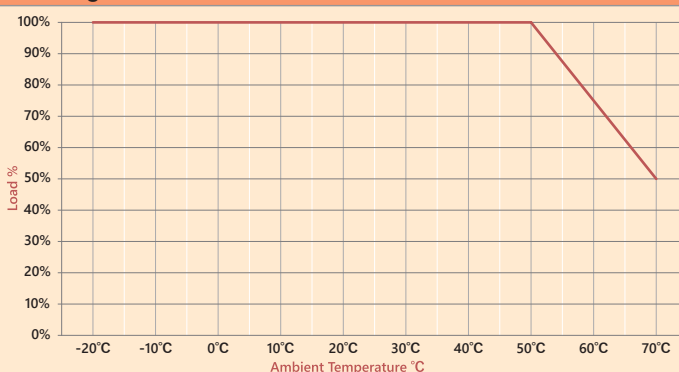
- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- IEC/UL 62368-1
- Means of Protection: 2 X MOPP
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM065T-F120	12.0V	5.00A	60W
ATM065T-F150	15.0V	4.34A	65W
ATM065T-F180	18.0V	3.62A	65W
ATM065T-F190	19.0V	3.43A	65W
ATM065T-F240	24.0V	2.71A	65W
ATM065T-F480	48.0V	1.36A	65W

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	1.6A-0.7A
Protection	Internal Primary Current Fuse

### Derating Curve



\*For ATS065A1, ATM065A4 and ATM065T

### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS@ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

### Electrical

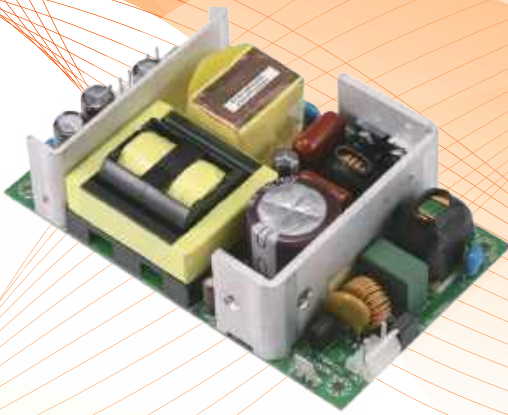
Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current(Patient) Leakage Current	< 100µA
Efficiency	Meet DoE Level VI, ErP Stage 2
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

### Mechanical

Dimension	L 102 × W 51 × H 31 (mm) 4" x 2" x 1.2"
Weight	141g (Ref.)



# Open Frame Power Supply 120 / 150 Watt Series

ATM120T - F X X X

O / P Voltage ←

ATM150T - F X X X

O / P Voltage ←

## Features :

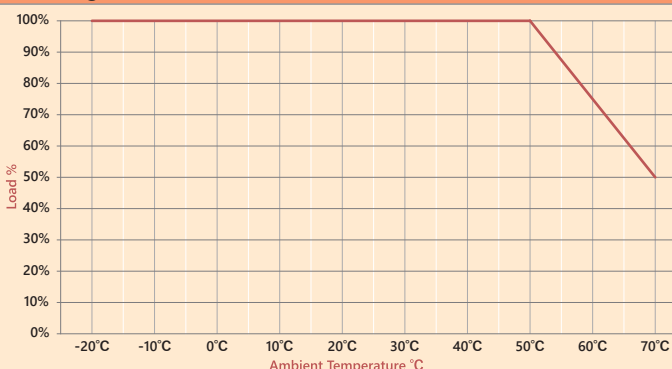
- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- IEC 60950-1
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM120T-F120	12.0V	10.0A	120W
ATM120T-F150	15.0V	8.0A	120W
ATM120T-F190	19.0V	6.3A	120W
ATM120T-F240	24.0V	5.0A	120W
ATM120T-F300	30.0V	4.0A	120W
ATM120T-F480	48.0V	2.5A	120W
Model	O/P Voltage	O/P Current	Watt
ATM150T-F120	12.0V	12.50A	150W
ATM150T-F240	24.0V	6.25A	150W
ATM150T-F300	30.0V	5.00A	150W
ATM150T-F480	48.0V	3.12A	150W

## Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	ATM120T : 1.5A-0.7A ATM150T : 1.7A-0.8A
Protection	Internal Primary Current Fuse

## Derating Curve



## Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS@ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

## Electrical

Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current(Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

## Environmental

Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

## Mechanical

Dimension	ATM120T : L 127 x W 76 x H31 (mm) 5" x 3" x 1.2" ATM150T : L 127 x W 76 x H38 (mm) 5" x 3" x 1.5"
Weight	320g (Ref.)



# Open Frame Power Supply 200 Watt Series

ATM200T - F X X X

Q / P Voltage ←

## Features :

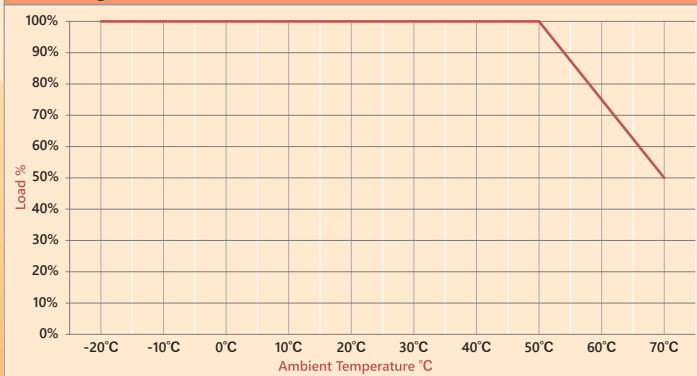
- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection: 2 X MOPP
- IEC 62368-1 3rd Edition
- 100-240VAC Universal Input
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Watt
ATM200T-F120	12.0V	16.0A	192W
ATM200T-F190	19.0V	10.5A	200W
ATM200T-F240	24.0V	8.3A	200W
ATM200T-F360	36.0V	5.5A	200W
ATM200T-F480	48.0V	4.2A	200W

## Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	2.5A-0.9A
Protection	Internal Primary Current Fuse

## Derating Curve



## Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS@ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

## Electrical

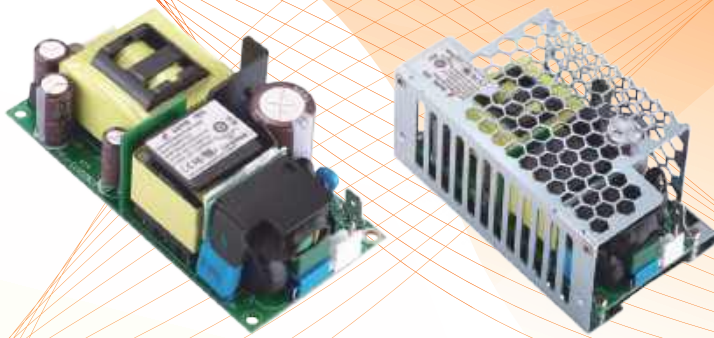
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current(Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

## Environmental

Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

## Mechanical

Dimension	L 127 × W 76 × H 38 (mm) 5" x 3" x 1.5"
Weight	360g (Ref.)



## Open Frame Power Supply 200 Watt Small Size Series

ATM200TS - F X X X □

Q / P Voltage ←

Blank : Open Frame  
X : Enclosed Type

### Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection : 2 X MOPP
- IEC/EN/UL 62368-1
- 100-240VAC Universal Input
- 200W With Fan
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS@ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

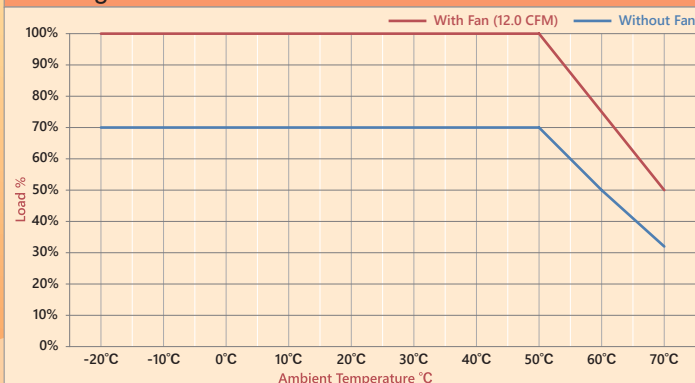
Model	O/P Voltage	O/P Current		Watt	
		Convection	With Fan*	Convection	With Fan*
ATM200TS-F120□	12.0V	11.6A	16.0A	140W	192W
ATM200TS-F150□	15.0V	9.3A	13.0A	140W	195W
ATM200TS-F240□	24.0V	5.8A	8.3A	140W	200W
ATM200TS-F360□	36.0V	3.9A	5.5A	140W	200W
ATM200TS-F480□	48.0V	2.9A	4.2A	140W	200W

\*With 12 CFM Fan

### Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	2.5A-1A
Protection	Internal Primary Current Fuse

### Derating Curve



### Electrical

Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current(Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	140W with Convection Cooling 200W with Forced Cooling

### Mechanical

Dimension	Open Type : L 101.6 × W 50.8 × H 36 (mm) 4" x 2" x 1.4"
	Enclosed Type : L 103.4 × W 62 × H 42.9 (mm) 4.1" x 2.4" x 1.7"
Weight	Open Type : 284g (Ref.)
	Enclosed Type : 306g (Ref.)



## Open Frame Dual Output 210 Watt Series

ATM210T - F X X X

O/P Voltage ←

### Features :

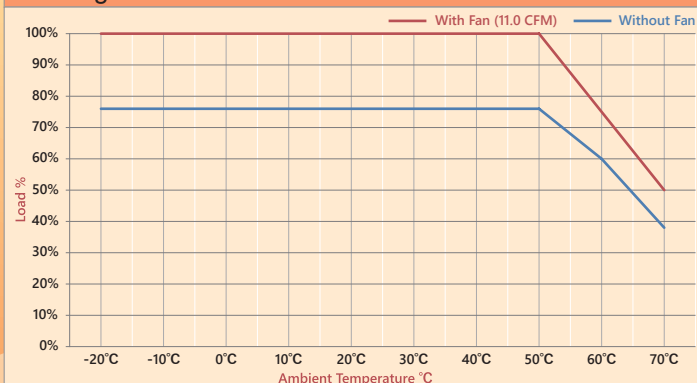
- IEC/ANSI/AAMI ES60601-1 (Edition 3.1)
- Means of Protection : 2 X MOPP
- IEC 60950-1
- 100-240VAC Universal Input
- 210W With Fan
- Standby 5V / 2A
- On & Off Remote Control
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current		Watt	
		Convection	With Fan*	Convection	With Fan*
ATM210T-F120	12V	12.5A	16.7A	160W	210W
	5V	2.0A			
ATM210T-F240	24V	6.25A	8.3A	160W	210W
	5V	2.0A			

\*With 11 CFM Fan

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	2.5A-1A
Protection	Internal Primary Current Fuse

### Derating Curve



### Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS@ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

### Electrical

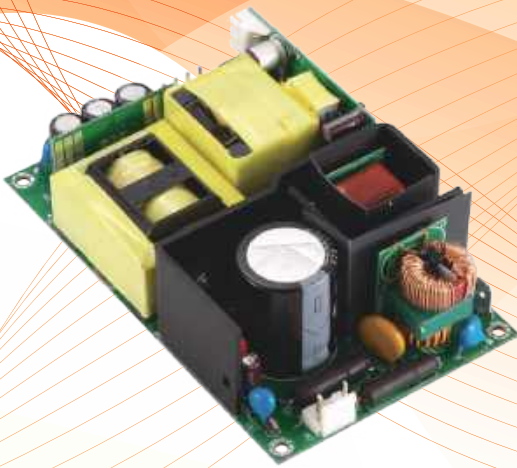
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current(Patient) Leakage Current	< 100μA
Earth Leakage Current	< 5mA
Efficiency	Meet DoE Level VI, ErP Stage 2
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

### Environmental

Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	160W with Convection Cooling 210W with Forced Cooling

### Mechanical

Dimension	L 127 × W 76 × H 38 (mm) 5" x 3" x 1.5"
Weight	310g (Ref.)



## Open Frame Dual Output 305 Watt Series

ATM305T - F X X X

Q / P Voltage ←

### Features :

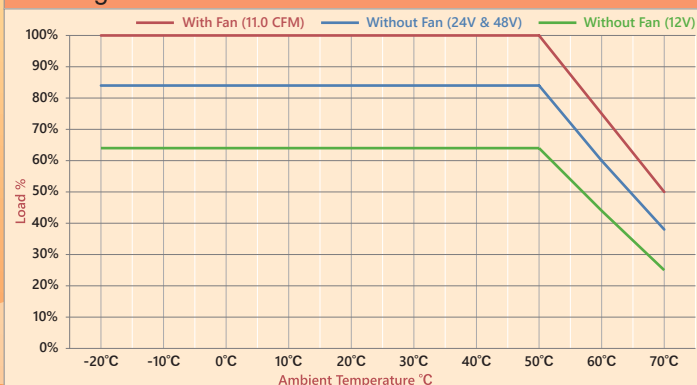
- IEC/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection : 2 X MOPP
- IEC/UL 62368-1
- 100-240VAC Universal Input
- 305W With Fan
- Standby 5V / 1A
- On & Off Remote Control
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current		Watt	
		Convection	With Fan*	Convection	With Fan*
ATM305T-F120	12V	16.0A	25.0A	197W	305W
	5V	1.0A			
ATM305T-F240	24V	10.4A	12.5A	255W	305W
	5V	1.0A			
ATM305T-F480	48V	5.2A	6.25A	255W	305W
	5V	1.0A			

\*With 11 CFM Fan

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	3.6A-1.6A
Protection	Internal Primary Current Fuse

### Derating Curve



Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤ 1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS@ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Electrical	
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current(Patient) Leakage Current	< 100μA
Earth Leakage Current	< 5mA
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	ATM305T-F120: 197W with Convection Cooling ATM305T-F240: 255W with Convection Cooling ATM305T-F480: 255W with Convection Cooling 305W with Forced Cooling

Mechanical	
Dimension	L 127 × W 76 × H 38 (mm) 5" x 3" x 1.5"
Weight	350g (Ref.)





# Open Frame Dual Output 450 Watt Series

ATM450S - F X X X

O / P Voltage ←

Blank : Open Frame

X : Enclosed Type Without Fan

X : Enclosed Type With Top Fan

X : Enclosed Type With Side Fan

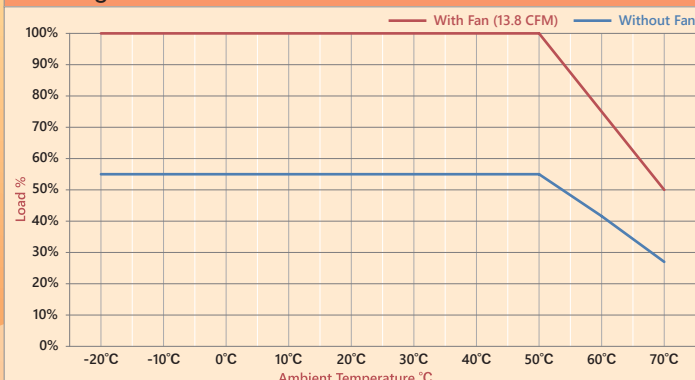
## Features :

- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection : 2 X MOPP
- IEC/EN/UL 62368-1
- 100-240VAC Universal Input
- 450W With Fan
- Standby 5V / 1A
- On & Off Remote Control
- 12V / 0.6A Output for Fan
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current		O/P for Fan	Watt	
		Convection	With Fan*		Convection	With Fan*
ATM450S-F120 <input type="checkbox"/>	12.0V	20.8A	37.5A	12V /0.6A	260W	462W
	5V	1.0A				
ATM450S-F150 <input type="checkbox"/>	15.0V	16.6A	30.0A	12V /0.6A	260W	462W
	5V	1.0A				
ATM450S-F190 <input type="checkbox"/>	19.0V	13.0A	23.7A	12V /0.6A	260W	462W
	5V	1.0A				
ATM450S-F240 <input type="checkbox"/>	24.0V	10.4A	18.8A	12V /0.6A	260W	463W
	5V	1.0A				
ATM450S-F360 <input type="checkbox"/>	36.0V	6.9A	12.5A	12V /0.6A	260W	462W
	5V	1.0A				
ATM450S-F480 <input type="checkbox"/>	48.0V	5.2A	9.4A	12V /0.6A	260W	463W
	5V	1.0A				
ATM450S-F540 <input type="checkbox"/>	54.0V	4.6A	8.3A	12V /0.6A	260W	460W
	5V	1.0A				
ATM450S-F560 <input type="checkbox"/>	56.0V	4.5A	8.0A	12V /0.6A	260W	460W
	5V	1.0A				

\*With 13.8 CFM Fan

## Derating Curve



Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	5.3A-2.2A
Protection	Internal Primary Current Fuse

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤2% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS@ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Electrical	
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current(Patient) Leakage Current	< 100µA
Earth Leakage Current	< 5mA
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental	
Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH
	Storage : 10 to 90% RH
Cooling	250W with Convection Cooling
	450W with Forced Cooling

Mechanical	
Dimension	Open Frame : L 127 × W 76 × H 34 (mm) 5" x 3" x 1.3"
	Enclosed Type : L 127 × W 87 × H 50 (mm) (Top Fan) 5" x 3.4" x 2.0"
	Enclosed Type : L 148 × W 80 × H 41 (mm) (Side Fan) 5.9" x 3.2" x 1.6"
	Open Frame : 390g (Ref.)
Weight	Enclosed Type(Top Fan) : 570g (Ref.)
	Enclosed Type(Side Fan) : 660g (Ref.)



# Open Frame Power Supply 612 Watt Series

ATM600 - F X X X

Q / P Voltage ←

## Features :

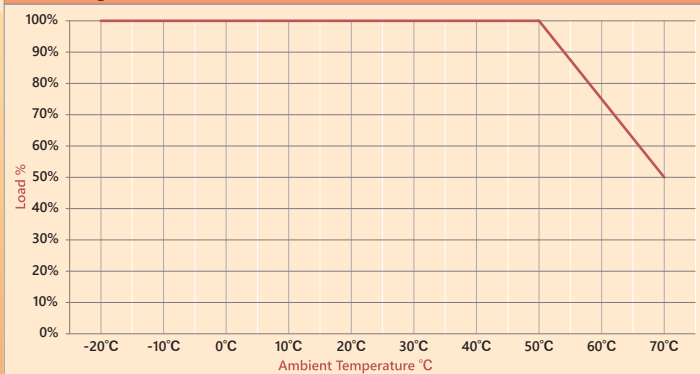
- IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection : 2 X MOPP
- IEC/EN/UL 62368-1
- 100-240VAC Universal Input
- Standby 5V / 1A
- On & Off Remote Control
- Efficiency up to 95%
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Model	O/P Voltage	O/P Current	Standby	O/P for Fan	Watt
ATM600-F120	12.0V	50.0A	5V / 1A	12V / 0.6A	612W
ATM600-F240	24.0V	25.0A	5V / 1A	12V / 0.6A	612W
ATM600-F360	36.0V	16.6A	5V / 1A	12V / 0.6A	612W
ATM600-F480	48.0V	12.5A	5V / 1A	12V / 0.6A	612W

## Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	7.0A-2.7A
Protection	Internal Primary Current Fuse

## Derating Curve



## Output

Load Regulation	±5% ( Typical )
Ripple & Noise	≤1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS@ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

## Electrical

Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current(Patient) Leakage Current	< 100μA
Earth Leakage Current	< 5mA
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

## Environmental

Operating Temperature	-20 to + 50°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

## Mechanical

Dimension	L 203 × W 127 × H 40 (mm) 8" x 5" x 1.6"
Weight	1,100g (Ref.)

# 1.4KW Power Supply

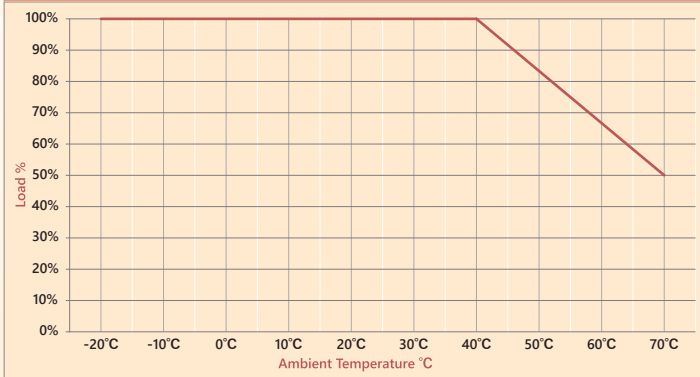


## Features :

- 100-240VAC Universal Input
- Application : UPS Charger

O/P Voltage	O/P Current	Watt
61.5V	22.76A	1400W

## Derating Curve



Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	16A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C20

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	≤1% Vp-p @ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥ 10mS@ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection / Over Temperature Protection

Mechanical	
Dimension	L 240.7 x W 153 x H 50 (mm)
Weight	2,250g (Ref.)

# Military Grade Power Supply

## 65W Type-C Power Delivery



### Features :

- MIL-STD-461 CE101/CE102/CS115/RE102 Army EMI Standard Solution
- P.D. 3.0 / QC 4.0+ / QC 4.0
- IP67 Dust/Water Proof Solution

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	0.85A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14

O/P Voltage	O/P Current	Watt
5.0V	3.00A	15.0W
9.0V	3.00A	27.0W
12.0V	3.00A	36.0W
15.0V	3.00A	45.0W
20.0V	3.25A	65.0W

Mechanical	
Case Dimension	L 153.4 x W 60.6 x H 40.6 (mm)

## 90W & 200W



### Features :

- Meet MIL-STD-461 CE101/CE102/RE102 Army EMI Standard
- Application : Military Rugged Laptop

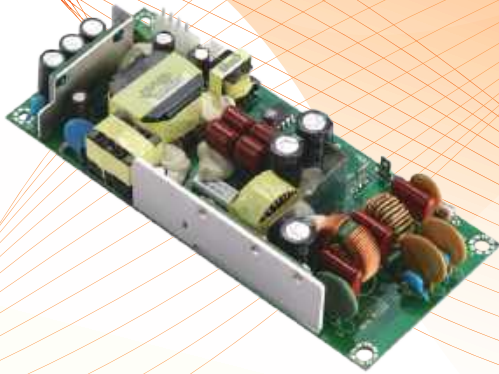
O/P Voltage	O/P Current	Watt
19.0V	4.74A	90W
19.0V	10.50A	200W

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	90W : 1.2A Max. 200W : 2.8A Max.
Protection	Internal Primary Current Fuse
Configuration	IEC60320/C14

Output	
Load Regulation	±5% ( Typical )
Ripple & Noise	90W : < 1% Vp-p Max. for Output Voltage@ Full Load
	200W : < 2% Vp-p Max. for Output Voltage@ Full Load
Transient(Dynamic) Response	0.5mS for 50% Load Change Typical
Hold-up Time	≥ 10mS @ Full Load
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection *Over Temperature Protection (200W)

Mechanical	
Case Dimension	90W : L 151 x W 64 x H 36 (mm) 200W : L 204 x W 81 x H 42.5 (mm)

# Marine Negative Input Voltage 302 / 452 Watt DC-DC Power Supply



## Features :

- IEC/UL/EN 62368-1 3rd Edition
- Negative Input Voltage
- Meet IEC/EN 60945 (Maritime Navigation Standard)
- Application : Low-Orbit Satellite

O/P Voltage	O/P Current	Watt
56.0V	5.35A	302W
3.3V	0.50A	
56.0V	8.05A	452W
3.3V	0.50A	

Input	
Voltage	-57VDC ~ -40.5VDC
Current	302W : 8.2A Max.
	452W : 13.0A Max
Mechanical	
Dimension	302W : L 170 x W 75 x H 29 (mm)
	452W : L 170 x W 83 x H 32 (mm)

# Automotive 250 / 450 Watt DC-DC Power Supply



## Features :

- IEC/EN/UL 62368-1 3rd Edition
- Meet IEC 60945 EMI requirement
- Meet IEC 60529 IP56 requirements
- Meet ECE R10 ISO 7637-2 requirements
- Application : Vehicle Use

O/P Voltage	O/P Current	Watt
56.0V	4.47A	250W
56.0V	8.05A	450W

Input	
Voltage	10.8VDC ~ 30.0VDC
Mechanical	
Dimension	250W : L 226 x W 94 x H 51.6 (mm)
	450W : L302 x W 139 x H 63.8 (mm)

# 600W 1U Rack Mount Power Supply



## Features :

- 100-240VAC Universal Input
- 1U Low Profile
- Fan Error Detection
- AC Power Good Detection
- I<sup>2</sup>C Monitoring Output
- Application : Satellite Positioner

O/P Voltage	O/P Current	Watt
12.0V	29.17A	600W
24.0V	10.42A	

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	7.5A Max.

Mechanical	
Dimension	L 280.4 x W 102.5 x H 40.6 (mm)
Weight	1,200g (Ref.)

# Adjustable 500W Power Supply



## Features :

- 100-240VAC Universal Input
- GaN FET Based Design
- I<sup>2</sup>C Interface for Output Programming and Monitoring
- Adjustable Constant Current/ Constant Voltage Mode
- AC Power Good Detection
- Application : Battery Charger System

O/P Voltage	O/P Current	Watt
Adjustable CV 12.0V ~ 59.0V	Adjustable CC 0 ~ 8.5A	500W Max.

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	7A Max.

Mechanical	
Dimension	L 212.5 x W 108 x H 41.6 (mm)
Weight	1,060g (Ref.)

# Output Plug Types

Diagram of OP-01 output plug showing dimensions a, b, and diameter  $\phi c$ .

TYPE	a	b	c
OP-01	9.5	5.5	2.1

Diagram of OP-02 output plug showing dimensions a, b, and diameter  $\phi c$ .

TYPE	a	b	c
OP-02	9.5	5.5	2.5

Diagram of OP-03 output plug showing dimensions a and b.

TYPE	a	b
OP-03	6	12

Diagram of OP-04 output plug showing dimensions a and b.

TYPE	a	b
OP-04	6	12

Diagram of OP-05 output plug showing dimensions a, b, c, and d.

TYPE	a	b	c	d
OP-05	9.5	5.5	2.1	18.5

Diagram of OP-06 output plug showing dimensions a, b, c, and d.

TYPE	a	b	c	d
OP-06	9.5	5.5	2.1	18.5

Diagram of OP-07 output plug showing dimensions a and b.

TYPE	a	b
OP-07	6	12

Diagram of OP-08 output plug showing dimensions a and b.

TYPE	a	b
OP-08	6	12



阿達特科技股份有限公司  
**ADAPTER TECHNOLOGY CO., LTD.**

**HEADQUARTERS**

新北市中和區連城路258號6樓  
6F, No.258, LianCheng Rd., Zhonghe District,  
New Taipei City, 23553, Taiwan  
Tel:+886-2-8226-2279  
Fax:+886-2-8226-2238  
E-mail:service@adaptech.com.tw  
<http://www.adaptech.com.tw>

**CHINA FACTORY**

廣東省東莞市石排鎮下沙劉屋帝豐工業區2棟  
Di Feng Gong Ye Qu 2 Hao Xiasha Liuwu Vlg.  
Shipai Town Dong Guan, Guang Dong 523350  
Tel:+86-769-8905-5998  
+86-769-8136-9008

**PHILIPPINES FACTORY**

Block 8-C Lot 1, Phase 3, Ltd-Sec, Santiago,  
Malvar, Region IV-A, Batangas, Philippines

