

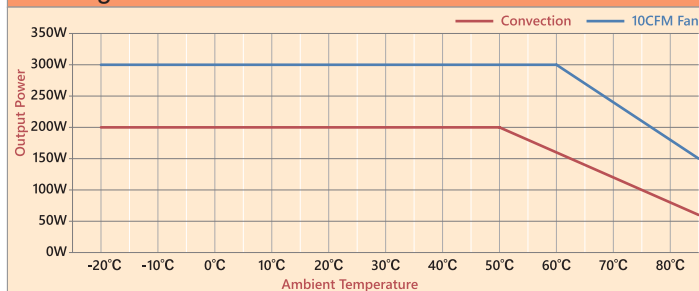


Open Frame Power Supply 300 Watt Small Size Series

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
- Meet IEC60335-1 & IEC61558-1/-2-16
- 100-240VAC Universal Input
- 300W With Fan
- Extra Function(Optional): 5V Standby / 12V Fan Power / Remote Control / DC Power Good / V-Trim / Remote Sense
- Class I / Class II Available
- Over Voltage Category III (OVC III)
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Derating Curve



Input

Voltage	100-240VAC
Line Frequency	47-63Hz
Current	2.5A-1A.
Protection	Internal Primary Current Fuse

Output

Load Regulation	±3% (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 VII, 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	200W with Convection Cooling 300W with Forced Cooling

Mechanical

Dimension	Open Type : L 101.6 × W 50.8 × H 38.1 (mm)
	4" x 2" x 1.5"
	Enclosed Type : L 120.5 × W 59.8 × H 43.9 (mm)
	4.75" x 2.36" x 1.73"
Weight	Open Type : 240g (Ref.)
	Enclosed Type : 356g (Ref.)



Open Frame Dual Output 305 Watt Series

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

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

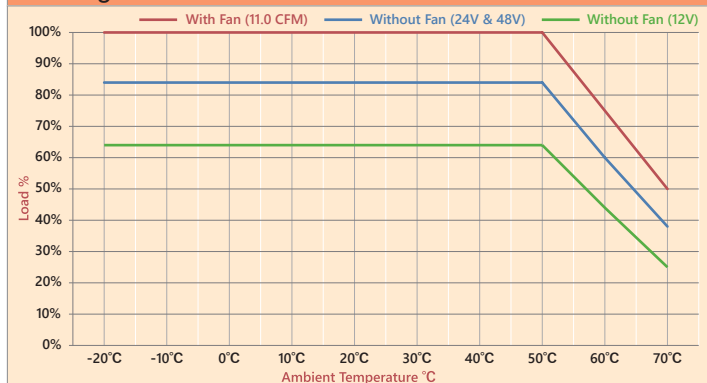
Electrical

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

Input

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

Derating Curve



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

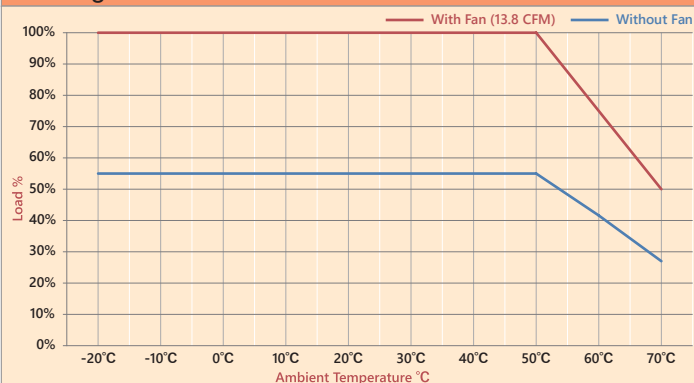
Dimension	L 127 × W 76 × H 38 (mm) 5" x 3" x 1.5"
Weight	350g (Ref.)



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

Derating Curve



Open Frame Dual Output 450 Watt Series

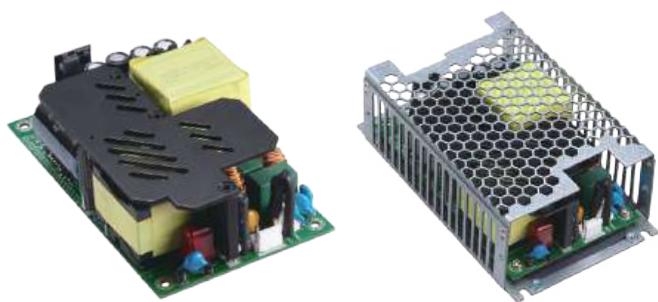
Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	5.3A-2.2A
Protection	Internal Primary Current Fuse

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

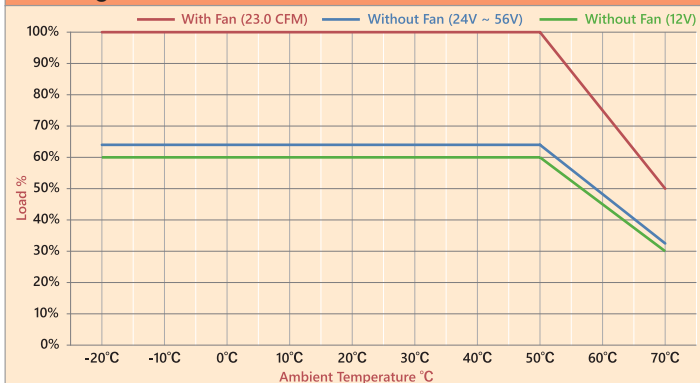
Mechanical	
Dimension	Open Frame : L 127 × W 76 × H 34 (mm) 5" x 3" x 1.34"
	Enclosed Type : L 127 × W 87 × H 50 (mm)
	(Top Fan) 5" x 3.43" x 1.97"
	Enclosed Type : L 148 × W 80 × H 41 (mm)
	(Side Fan) 5.83" x 3.15" x 1.62"
Weight	Open Frame : 390g (Ref.)
	Enclosed Type(Top Fan) : 570g (Ref.)
	Enclosed Type(Side Fan) : 660g (Ref.)



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
- Meet IEC60335-1 & IEC61558-1/-2-16
- 100-240VAC Universal Input
- 600W With Fan
- 12V / 0.6A Output for Fan
- Efficiency up to 95%
- Over Voltage Category III (OVC III)
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Derating Curve



Open Frame Dual Output 600 Watt Series

Input	
Voltage	100-240VAC
Line Frequency	50-60Hz
Current	7.0A-2.7A
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 / 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	400W (12V 360W) with Convection Cooling 600W with Forced Cooling

Mechanical	
Dimension	Open Frame : L 127 × W 76 × H 41.6 (mm)
	5" x 3" x 1.64"
	Enclosed Type : L 146 × W 87.5 × H 48 (mm)
	5.75" x 3.45" x 1.89"
Weight	Open Frame : 468g (Ref.)
	Enclosed Type : 636g (Ref.)



Open Frame Power Supply 612 Watt Series

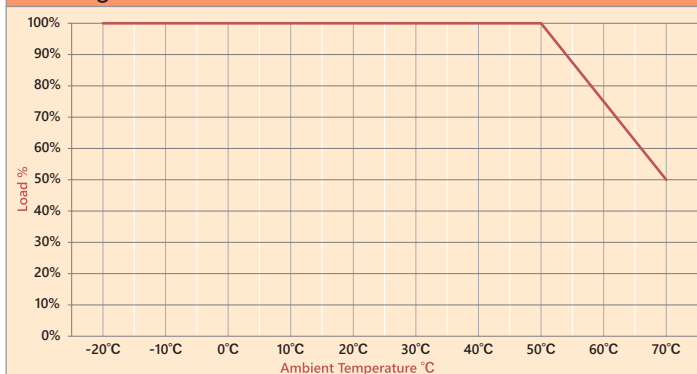
Features :

- 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

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

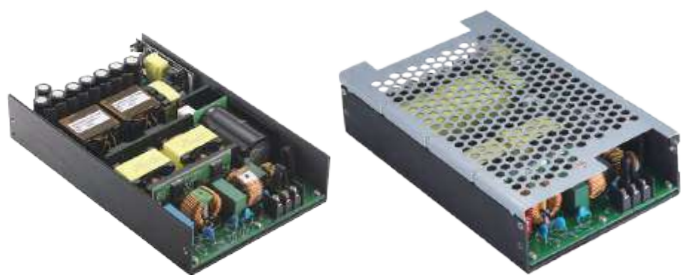
Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current(Patient) Leakage Current	< 100μA
Earth Leakage Current	< 5mA
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

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 1.58"
Weight	1,100g (Ref.)



Open Frame Power Supply 750 Watt Series

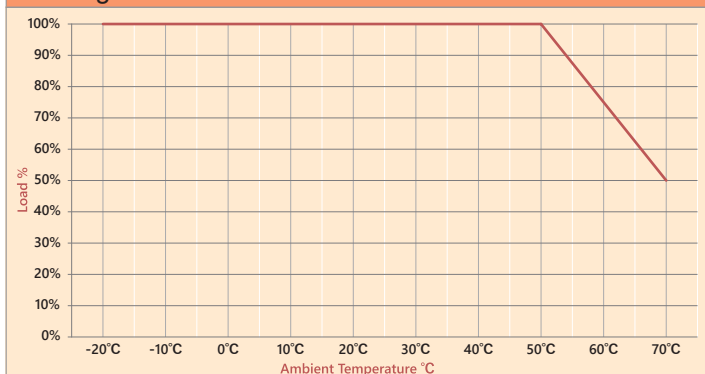
Features :

- 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
- Meet IEC60335-1 & IEC61558-1/-2-16
- 100-240VAC Universal Input
- Standby 5V / 2A
- On & Off Remote Control
- Efficiency up to 96%
- Over Voltage Category III (OVC III)
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	9.3A-3.2A
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	Open Frame : L 203 × W 127 × H 40 (mm)
	8" x 5" x 1.58"
	Enclosed Type : L 203 × W 127 × H 49.8 (mm)
Weight	8" x 5" x 1.96"
	Open Frame : 1,300g (Ref.) Enclosed Type : 1,415g (Ref.)



I.T.E.

Medical

Open Frame Power Supply 1000 Watt Series

Features :

- Meet IEC/EN/ANSI/AAMI ES60601-1 (Edition 3.2)
- Meet EMC : IEC60601-1-2 (Edition 4.1)
- Means of Protection : 2 X MOPP
- Meet IEC/EN/UL 62368-1
- Meet IEC60335-1 & IEC61558-1/-2-16
- 100-240VAC Universal Input
- Standby 5V / 2A
- On & Off Remote Control
- Efficiency up to 94%
- Over Voltage Category III (OVC III)
- Regulated Output With Low Ripple Noise
- Modified and Custom Design Available
- 2 Years Warranty

Output

Load Regulation	±3% (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	1000W with Forced Cooling

Mechanical

Dimension	L 235 × W 140.5 × H 50 (mm) 9.26" x 5.54" x 1.99"
Weight	1,950g (Ref.)

Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	10.0A-5.0A
Protection	Internal Primary Current Fuse

Derating Curve

