



FEATURES

- High Density, 360W in 4" X 6" Footprint
- BF Rated
- 5V Standby Power & 12V Fan Output
- Remote Control (Inhibit) Function
- Meets IEC/EN 60601-1-2 4th Edition EMC
- Approved to UL/IEC/EN 60601-1 & 60950-1



ELECTRICAL SPECIFICATIONS

Input Voltage	90-264 VAC
Input Frequency	47-63 Hz
Input Current	5A (rms) max. @ 115 VAC, 2.5A (rms) max. @ 230 VAC
Inrush Current	40A max. @ 115 VAC, 80A max. @ 230 VAC, at 25°C cold start
Earth Leakage Current	100µA max. @ 264 VAC, 63 Hz
Power Factor	>0.95 @ 115 VAC, >0.9 @ 230 VAC
Output Power Ratings	See table
Output Voltage Regulation ..	See table
Ripple and Noise	See table
Standby Power	5V/0.5A max.
Fan Output	12V/0.3A max.

STANDARDS & COMPLIANCES

IEC/EN 60601-1-2: 2014	EMC & Immunity Performance
EN 55011, EN 55022	Class B, conducted & radiated
EN 55024	Class B, conducted & radiated
FCC	Class B, conducted & radiated
EN61000-3-2	Harmonic distortion, Class A
EN61000-3-3	Line fluctuations & flicker
EN61000-4-2	ESD, ±15 KV air and ±8 KV contact
EN61000-4-3	Radiated immunity, 3 V/m
EN61000-4-4	Fast transient/burst, ±2 KV
EN61000-4-5	Surge, ±1 KV diff., ±2 KV com.
EN61000-4-6	Conducted immunity, 6 Vrms
EN61000-4-8	Magnetic field immunity, 30 A/m
EN61000-4-11	Voltage dip immunity, 30% reduction for 500ms, 60% reduction for 100ms, >95% reduction for 10ms

MODELS LIST

Product No. ⁽¹⁾	Output Voltage	Min. Load	Max. Load		Output Regulation	Ripple & Noise (Vp-p) ⁽²⁾	Max. Output Power	
			@ Convection	@ 18 CFM Forced Air			@ Convection	@ 20 CFM Forced Air
TWM360-12A	12V	0A	20.84A	30A	±3%	120mV	250W	360W
TWM360-24A	24V	0A	10.42A	15A	±3%	240mV	250W	360W
TWM360-28A	28V	0A	8.93A	12.86A	±2%	280mV	250W	360W
TWM360-48A	48V	0A	5.21A	7.50A	±2%	300mV	250W	360W
TWM360-54A	54V	0A	4.63A	6.67A	±2%	300mV	250W	360W

Notes:

1. Optional output connector: Add suffix "Q" to the P/N for JST B10P-VH-B 3.96mm pitch or equivalent (suitable for 24V and up), e.g. TWM360-24AQ, etc.
2. Ripple & noise are measured at 20 MHz bandwidth with a 10µF electrolytic capacitor and a 0.1µF ceramic capacitor in parallel.

STANDARDS & COMPLIANCES (CONT.)

Safety Standards	UL/IEC/EN 60601-1 (Edition 3.1), ANSI/AAMI ES 60601-1 (2012), CSA C22.2 No. 60601-1 (2014); UL/IEC/EN 60950-1 (2nd Edition)
Agency Approvals	UL, cUL, TUV, CB, CE
Other Compliance	RoHS

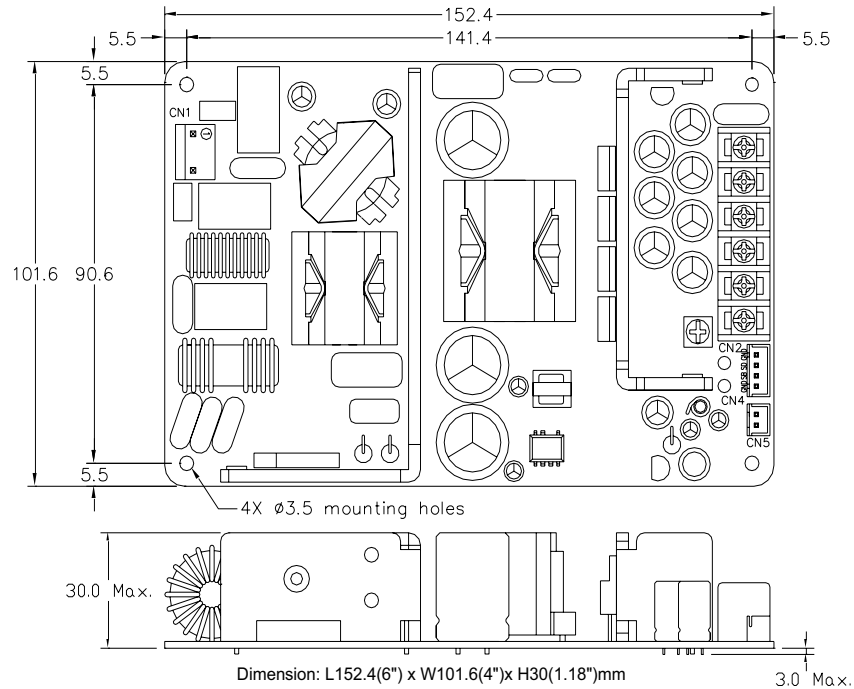
GENERAL SPECIFICATIONS

Efficiency	90% typ. @ full load, 230 VAC
Hold-up Time	10ms typ. @ full load, 230 VAC
Operating Altitude	5,000 meters max. (ITE), 3,000 meters max. (Medical)
Operating Temperature	0°C to +70°C
Storage Temperature	-20°C to +85°C
Derating	Derate linearly 2.5%/°C from +41°C to +70°C at convection; 2.5%/°C from +51°C to +70°C, 1%/°C from -20°C to 0°C at 20 CFM forced air cooling
Operating Humidity	0% to 90% non-condensing
Short Circuitry Protection	Auto-recovery
Over Load Protection	Set at 105% to 150% of the maximum rating; Auto-recovery
Over Voltage Protection	Latching type, AC recycle
Withstand Voltage	5,656 VDC input-output 2,121 VDC input-ground 2,121 VDC output-ground
MTBF	250K hours min. at full load and 25°C ambient temperature calculated per Telcordia SR-332

TWM360A Series

360W Medical & ITE Grade AC/DC Power Supplies

MECHANICAL SPECIFICATIONS (Unit: mm)



Note:
1. Weight: 0.48 kgs (1.06 lbs) approx.

INPUT & OUTPUT CONNECTORS

Input Connector: CN1

Pin #	Function
1	AC Line
2	AC Neutral

JST P/N B3P-VH-B (3.96mm pitch or equivalent); mates with JST VHR-3N or equivalent.

Output Connector: CN2

Standard	
Pin #	Function
1, 2, 3	GND
4, 5, 6	+V

6-Pole Terminal Block (8.25mm pitch or equivalent); rated 20A/300V.

Optional CN2 (for 24V & up)	
Pin #	Function
1, 2, 3, 4, 5	GND
6, 7, 8, 9, 10	+V

JST P/N B10P-VH-B (3.96mm pitch or equivalent); mates with JST VHR-10N or equivalent.

Remote Sense Connector: CN4

Pin #	Function
1	GND
2	+5Vsb
3	SD (Inhibit)
4	GND

JST P/N B6B-XH-A (2.5mm pitch or equivalent); mates with JST XHP-4 or equivalent.

Fan Output Connector: CN5

Pin #	Function
1	+12V
2	GND

JST P/N B2B-XH-A (2.5mm pitch or equivalent); mates with JST XHP-2 or equivalent.