POWER-WIN TECHNOLOGY CORP.

www.power-win.com

Open Frame Type Switching Power Supply

360Watts Medical and ITE Single Output

FEATURES

- Both ITE & Medical Approvals.
- High Power density, 360W in 6" x 4" footprint.
- Medical applications Protection: Means of Patient Protection (MOPP).
- Altitude during operation: ITE up to 5000m ,Medical Below 3000m.
- Meet Medical BF rated.
- Main output and Standby output Power ON LED indicators.
- 3 years warranty.

ELECTRICAL SPECIFICATIONS

- Input range : 90 - 264VAC (Refer to derating curve).
- Frequency : 47 - 63Hz.
- Power Factor : > 0.95 @115VAC; > 0.90 @230VAC @full load.
- Inrush current :<40A peak @115VAC; <80A peak @230VAC cold start @25°C.
- Input current (rms) : 5A @115VAC; 2.5A @230VAC max.
- Efficiency : > 90% typical @full load, 230VAC.
- Earth leakage current < 100uA @264VAC.
- Maximum output power : 360Watts forced air, 250Watts convection cooling.
- Hold-up time : > 10ms typical @full load, 115VAC.
- Short circuit protection : Auto-recovery.
- Over power protection : 105% to 150% maximum rating, Auto-recovery.
- Over voltage protection : Latching type. AC Recycle.
- 5Vsb meet ErP 0.5W @ No load.
- Remote control (Inhibit) function.

RoHS compliant

Dimension : L152.4 × W101.6 × H30.0 mm (6" x 4" x 1.18")

Weight : 0.48 kgs. (1.06 lbs.)

SAFETY STANDARDS

UL60601-1 3rd Edition
UL/c-UL UL60950-1
EN60601-1 3rd Edition
TUV EN60950-1
IEC EN60601-1 3rd Edition
CB IEC 60950-1

EMC STANDARDS

EN60601-1-2
EN55024
EN 55011 Class B
EN55032 Class B
FCC Part 15 Class B
FCC Part 18 Class B
CE

ENVIRONMENTAL

- Operating temperature : 0 to +70°C (Refer to derating curve).
- Storage temperature: -20°C to +85°C.
- Humidity: Non-condensing 0% to 90%.
- MTBF : > 250,000 hours @full load and 25°C ambient temperature per Telcordia(Bellcore TR-332).

DC OUTPUT & FEATURES

Model No.	Output Voltage (V1)	Maximum Load (V1)		Output Regulation (V1)	Ripple Noise (V1)	Standby supply (V2)	FAN output (V3)	Convection total power	20CFM Forced air total power
		Convection	18 CFM Forced Air						
PW-IM360B-1Y120Z	+12V	20.84A	30.00A	±3%	120mV	5V/0.5A	12V/0.3A	250W	360W
PW-IM360B-1Y240Z	+24V	10.42A	15.00A	±3%	240mV	5V/0.5A	12V/0.3A	250W	360W
PW-IM360B-1Y280Z	+28V	8.93A	12.86A	±2%	280mV	5V/0.5A	12V/0.3A	250W	360W
PW-IM360B-1Y480Z	+48V	5.21A	7.50A	±2%	300mV	5V/0.5A	12V/0.3A	250W	360W
PW-IM360B-1Y540Z	+54V	4.63A	6.67A	±2%	300mV	5V/0.5A	12V/0.3A	250W	360W

Note:

1. Output connector options: Z=**T** (Terminal block type, pitch 8.25mm): Suitable for all voltages
   Z=**C** (Connector type, pitch=3.96mm): Suitable for 24V up
2. All models are equiped with 5Vsb & 12V fan outputs.
3. All models have total power 250W Max. convection or 360W Max. forced air cooling.
4. Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.

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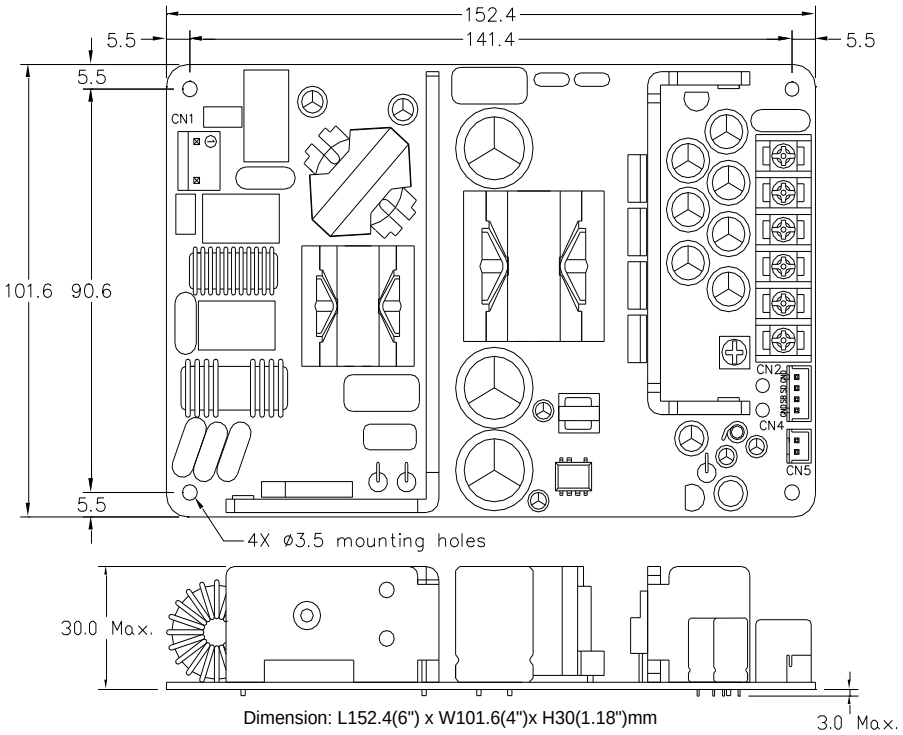
MECHANICAL SPECIFICATION



Dimension: L152.4(6") x W101.6(4")x H30(1.18")mm

MATCHING CONNECTORS

CN1: Input Connector

JST B3P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-3N or equivalent

Pin #	Signal
1	AC Neutral
2	AC Line

CN4: Remote Sense Connector

JST B6B-XH-A pitch: 2.5mm or equivalent, mates with JST XHP-4 or equivalent

Pin #	Signal
1	GND
2	+5Vsb
3	SD (INHIBIT)
4	GND

CN5: FAN Output Connector

JST B2B-XH-A pitch: 2.5mm or equivalent, mates with JST XHP-2 or equivalent

Pin #	Signal
1	+12V
2	GND

CN2: Main Output Connector

(T) 6-Pole Terminal block pitch: 8.25mm or equivalent, rate 20A/300V

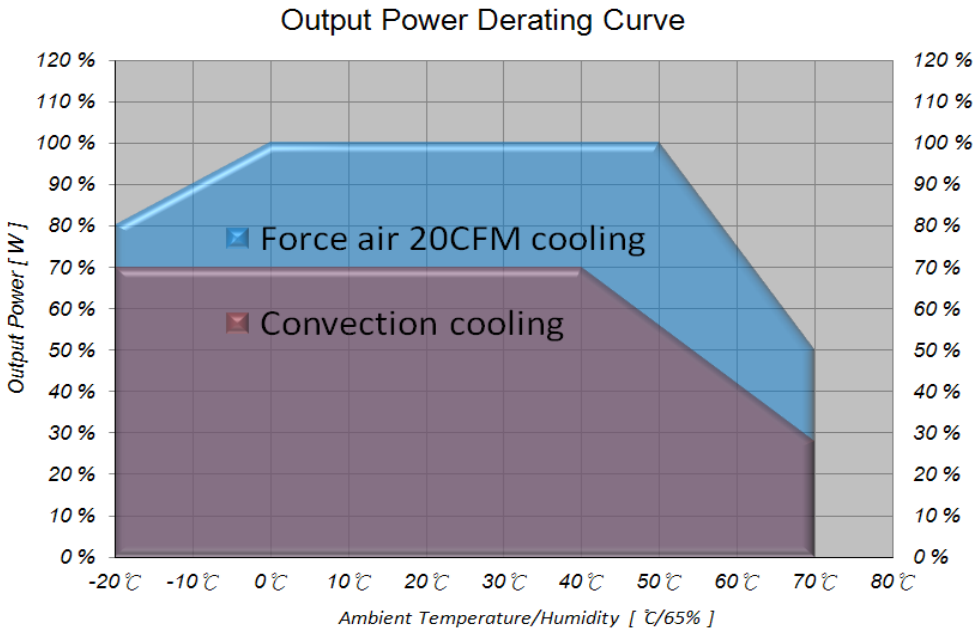
(C) JST B10P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-10N or equivalent

Option : T	
Pin #	Signal
1	GND
2	GND
3	GND
4	+Vo
5	+Vo
6	+Vo

Option : C	
Pin #	Signal
1	GND
2	GND
3	GND
4	GND
5	GND
6	+Vout
7	+Vout
8	+Vout
9	+Vout
10	+Vout

ENVIRONMENTAL

DERATING CURVE



convection cooling Derate linearly 2.5% per °C from 41 to 70°C
20CFM forced air cooling Derate linearly 2.5% per °C from 51 to 70°C
20CFM forced air cooling Derate linearly 1.0% per °C from 0 to -20°C

DC FAN Recommended Direction