



- IEC 60601-1-2 4th Edition Compliant
- High Power Density: 360W in 4" x 6" Footprint
- UL/EN60601-1 3rd Edition and UL/EN60950-1 2nd Edition Medical and ITE Approvals
- <100uA @ 264VAC Earth Leakage Current
- 2 x MOPP Primary to Secondary
- Meets BF (body Floating) Rated Output Requirements
- Short Circuit, Overload and Overvoltage Protection



### Electrical Specifications

<p><b>Input</b></p> <p>Input Voltage 90-264VAC            Input Frequency 47-63 Hz            Input Current (RMS) 5A max. @ 115VAC, 2.5A max. @ 230VAC            Inrush Current &lt;40A peak @ 115VAC, &lt;80A peak @ 230VAC, cold start, 25°C            No Load Power Consumption &lt;0.5W            Earth Leakage Current &lt;200uA @264Vac</p>	<p><b>Environmental &amp; Operating</b></p> <p>Operating Temperature 0°C to +70°C (refer to derating curve for details)            Storage Temperature -20°C to +85°C            Humidity 0% to 90% non-condensing            Operating altitude &lt;3000m for medical use, &lt;5000m for ITE use            MTBF: &gt;250K hours per Bellcore TR-332 at full load and 25°C ambient</p>
<p><b>Output</b></p> <p>Total Output 360W max. See derating chart for details            Output Voltage See models and ratings table            Hold Up Time 10mS typical at 75% and 115VAC nominal line            Efficiency 88% average minimum, 115VAC/230VAC            Minimum Load No minimum load            Output Touch Current &lt;100uA @264Vac</p>	<p><b>Compliance</b></p> <p><b>Safety Approvals</b></p> <p>USA ANSI/AAMI ES60601-1            Canada cUL ES60601-1            Europe TUV EN60601-1 3rd edition            CB Report</p> <p><b>Isolation:</b> 4000VAC input to output, 2 x MOPP            1500 VAC input to ground, 1 x MOPP            1500 VAC output to ground, 1 x MOPP</p> <p><b>EMC (IEC 60601-1-2:2014):</b> FCC Class B Radiated &amp; Conducted            CISPR11 Class B Radiated &amp; Conducted            EN55011 Class B Radiated &amp; Conducted</p> <p><b>Harmonic Currents</b> IEC 61000-3-2  <b>Voltage Flicker</b> IEC 61000-3-3  <b>Electrostatic Discharge</b> IEC 61000-4-2: ±15kV Air, ±8kV contact  <b>Radiated Immunity</b> IEC 61000-4-3: 10V/m  <b>EFT/Burst</b> IEC 61000-4-4: ±2kV  <b>Surge Immunity</b> IEC 61000-4-5: 1kV diff, 2kV com  <b>Conducted Immunity</b> IEC 61000-4-6: 10Vrms  <b>Magnetic Field</b> IEC 61000-4-8: 30A/m  <b>Dips / Interruptions</b> IEC 61000-4-11: Voltage dip immunity, 30% reduction for 500ms, 100% reduction for 10ms</p>
<p><b>Protection</b></p> <p>Overvoltage 105-140% of nominal output voltage.            Latching type, cycle AC to reset            Overload 105%-150% of maximum output rating            Auto recovery            Short Circuit Auto recovery</p>	<p><b>General</b></p> <p>Dimensions 6"(152.4mm)L x 4"(101.6mm)W x 1.18"(30.0mm)"H            Weight 1.06lbs (0.48kg)</p>

Your Partners in Power.....

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Specifications subject to change.  
 PPWAM360: DEC 20117



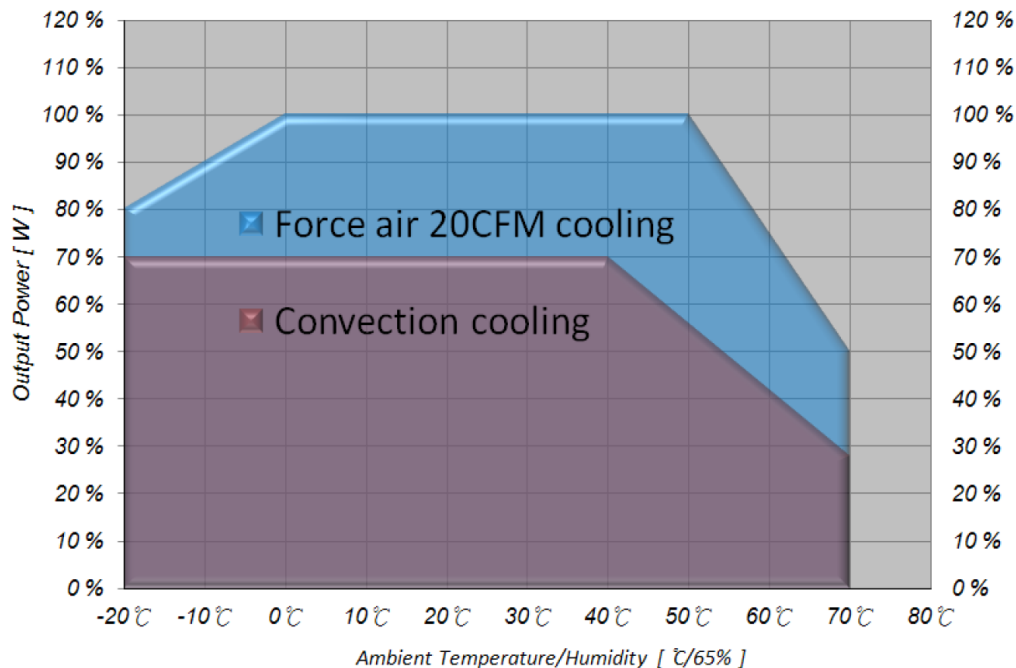
### Models and Ratings

Model <sup>1</sup>	Output Voltage	Max. Load at Convection <sup>4</sup>	Max. Load with 20CFM Air <sup>4</sup>	Output regulation <sup>2</sup>	Ripple & Noise (mV P-P) <sup>3</sup>	Standby Power (V2)	Fan output (V3)
PPWAM360-12A	12V	20.84A	30.00A	+/-3%	120mV	5V/0.5A	12V/0.3A
PPWAM360-14A	24V	10.42A	15.00A	+/-3%	240mV	5V/0.5A	12V/0.3A
PPWAM360-15A	28V	8.93A	12.86A	+/-3%	280mV	5V/0.5A	12V/0.3A
PPWAM360-18A	48V	5.21A	7.50A	+/-3%	300mV	5V/0.5A	12V/0.3A
PPWAM360-18-1A	54V	4.63A	6.67A	+/-3%	300mV	5V/0.5A	12V/0.3A

#### Notes:

1. Output Connector option: terminal block is standard. For Molex header type, part number is PPWAM360-XX-H.
2. Output regulation is the total percentage of deviation from nominal output voltage under all operating ranges.
3. Measured at 20MHz bandwidth with a 100uF electrolytic capacitor and 0.1uF ceramic capacitor in parallel at the output connector.
4. Total output power is rated for 250W at convection and 360W with 20 CFM forced air. Refer to drawings for proper fan placement.

### Derating Curve



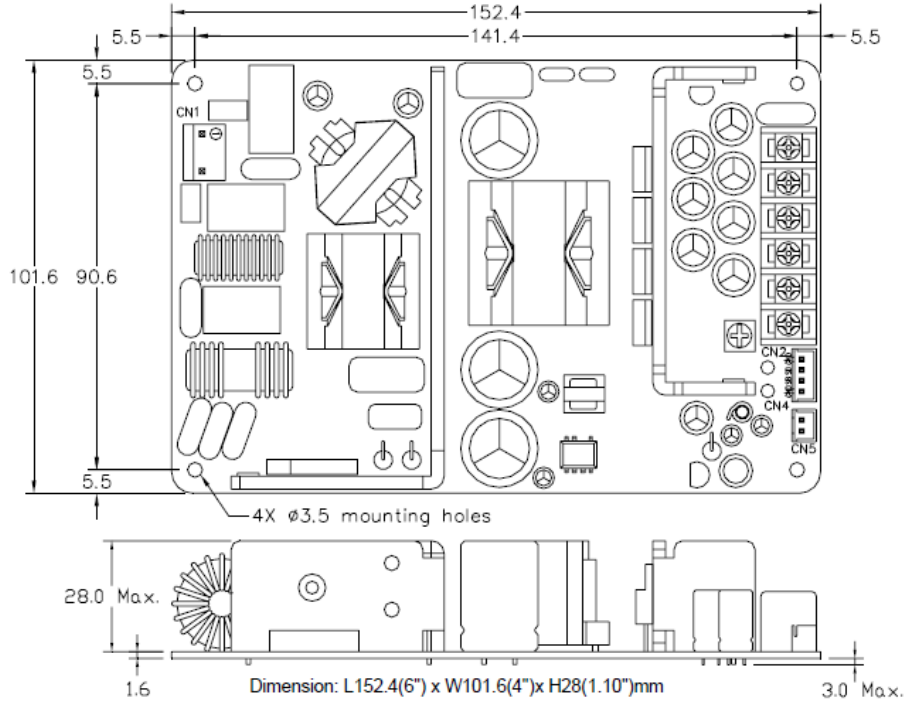
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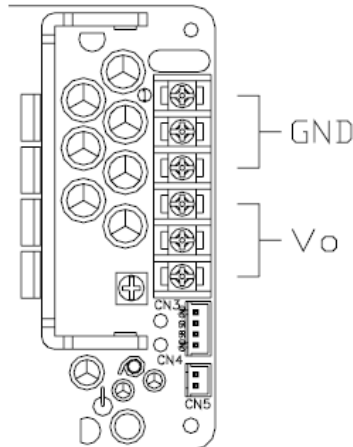


### Mechanical Outline

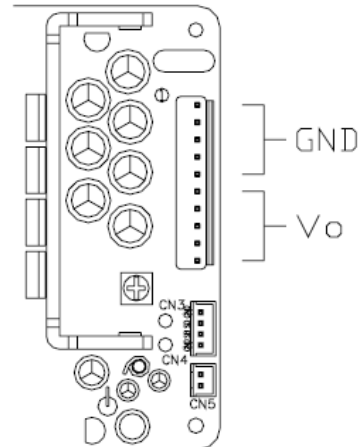


#### 11.1 Main Output optional Type ( CN2 )

Terminal Block Type



Connector Type





## Pin Assignments

### CN1: Input Connector

JST B3P-VH-B (3.96mm pitch) or equivalent.  
Mates with JST VHR-3N or equivalent

Pin#	Signal
1	AC Line
2	AC Neutral

### CN4: Remote On/Off and Standby

JST B4B-XH-A (2.5mm pitch) or equivalent.  
Mates with JST XHP-4 or equivalent

Pin#	Signal
1	GND
2	+5VSB
3	Remote on/off
4	GND

Remote on/off: Logic level high (5V) or floating to enable output. Logic level low to disable output.

### CN2: Main Output Connector

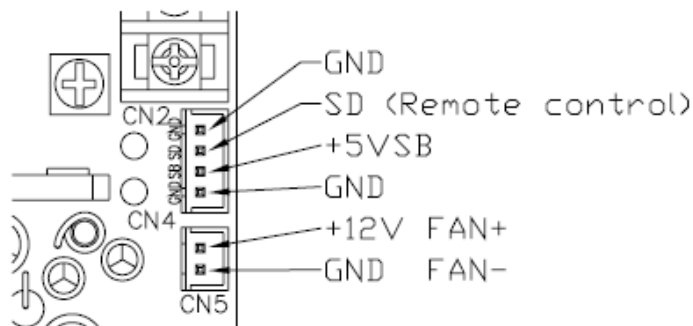
#### Terminal Block Type (standard)

Pin#	Signal
1	GND
2	GND
3	GND
4	+Vout
5	+Vout
6	+Vout

### CN5: Fan Output Connector

JST B2B-XH-A (2.5mm pitch) or equivalent.  
Mates with JST XHP-2 or equivalent

Pin#	Signal
1	+12V Fan
2	Fan Return



### Connector Type (Option -H)

JST B10P-VH-B (3.96mm pitch) or equivalent.  
Mates with JST VHR-10N or equivalent

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



### Recommended Fan Orientation

