



# PSAW65I Series 65W Power Supply



- Interchangeable Plugs for Worldwide Use
- Class II Configuration
- Efficiency Level VI
- <210mW No Load Power Consumption
- Short Circuit Protection
- Overload Protection
- No Load Operation



## Electrical Specifications

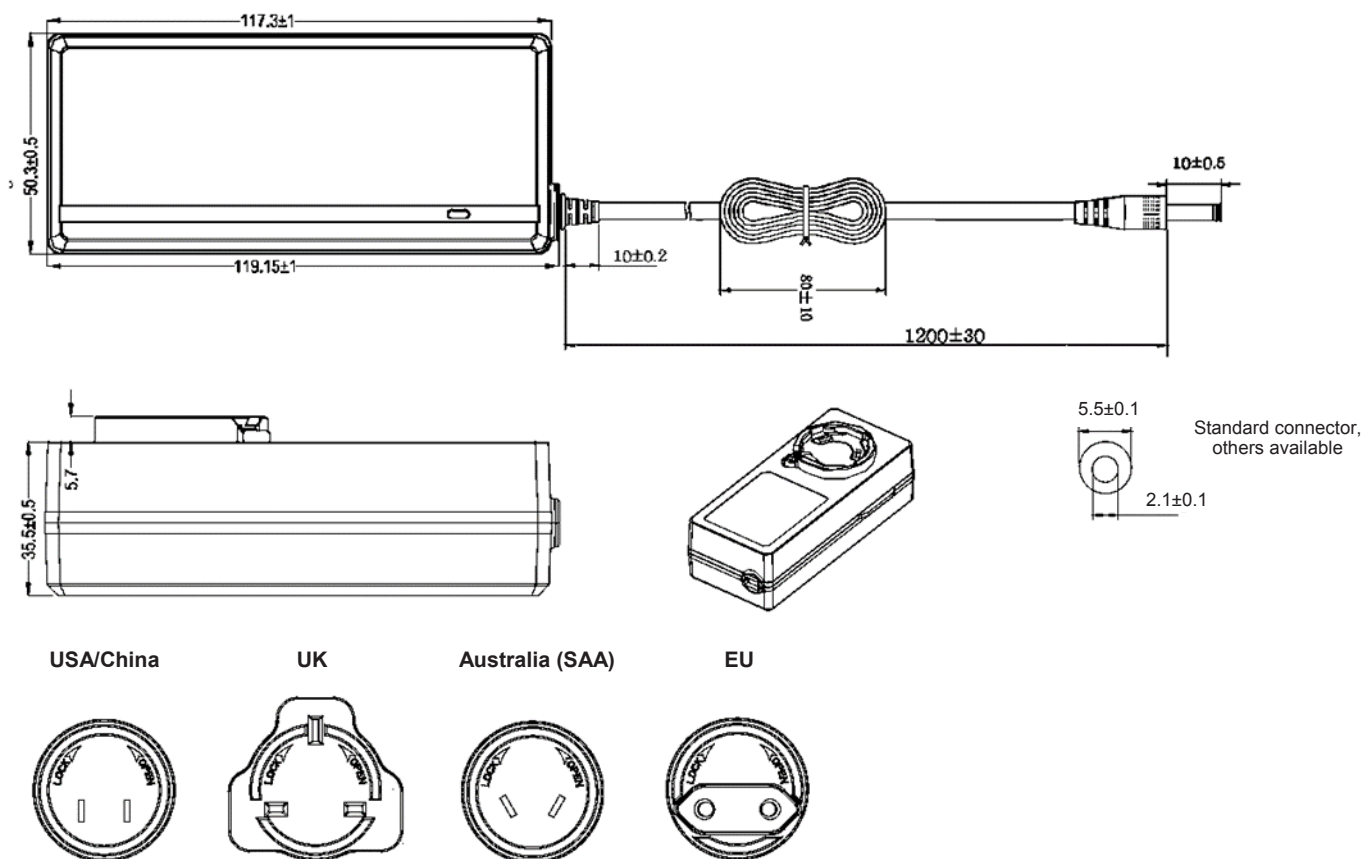
|   |   |
|---|---|
| <p><b>Input</b></p> <p>Input Voltage: 90-264VAC<br/>             Input Frequency: 47-63 Hz<br/>             Input Current: 1.5A Max.<br/>             Inrush Current: &lt;40A peak @ 264VAC, cold start at 25°C<br/>             No Load Power Consumption: &lt; 210mW, meets DOE level VI requirements</p>   | <p><b>Environmental &amp; Operating</b></p> <p>Operating Temperature: 0°C to +60°C (Derate output power linearly from 100% at 40°C to 50% at 60°C)<br/>             Storage Temperature: -20°C to +80°C<br/>             Humidity: 10% - 90% non-condensing<br/>             Operating Altitude: &lt;2000m<br/>             MTBF: &gt;100,000 hours per MIL-HDBK-217F at full load and 25°C ambient</p>   |
| <p><b>Output</b></p> <p>Output Power: 65W max, see table for details<br/>             Output Voltage: see table<br/>             Turn On Time: &lt;3S @100-240VAC input &amp; full output load<br/>             Rise Time: 20mS max. @ full load<br/>             Fall Time: 20mS max. @ full load<br/>             Hold-up time: 10mS min @ full load 115VAC input<br/>             Line Regulation: 20mS min @ full load 230VAC input<br/>             Load Regulation: ± 1% of rated output voltage at fixed load<br/>             Transient Response: ± 5% of rated voltage from 0 to full load<br/>             Efficiency: Maximum voltage excursion of 5% for 25% load change with 0.25A/uS slew rate. Recovery time: 200uS<br/>             Meets DOE level VI requirements</p> | <p><b>Compliance</b></p> <p><b>Safety Approvals</b></p> <p>USA: UL60950-1<br/>             Canada: cUL60950-1<br/>             Europe: CB Report, CE Report<br/>             RCM (Australia)</p> <p><b>EMC:</b></p> <p>FCC Class B Radiated &amp; Conducted<br/>             CISPR22 Class B Radiated &amp; Conducted<br/>             EN55022 Class B Radiated &amp; Conducted</p> <p><b>Harmonic Currents</b>: IEC 61000-3-2<br/> <b>Voltage Flicker</b>: IEC 61000-3-3<br/> <b>Electrostatic Discharge</b>: IEC 61000-4-2: ±8 KV air, ±4 KV contact<br/> <b>Radiated Immunity</b>: IEC 61000-4-3: 3V/m<br/> <b>EFT/Burst</b>: IEC 61000-4-4: ±1 KV<br/> <b>Surge Immunity</b>: IEC 61000-4-5: ±1 KV differential mode<br/> <b>Conducted Immunity</b>: IEC 61000-4-6: 3Vrms<br/> <b>Magnetic Field</b>: IEC 61000-4-8: 1A/m<br/> <b>Dips / Interruptions</b>: IEC 61000-4-11: 30% reduction for 500 ms, and &gt;95% reduction for 10 ms</p> |
| <p><b>Protection</b></p> <p>Short Circuit Protection: Hiccup mode. Auto recovery.<br/>             Overcurrent Protection: 150-200% of rated current. Auto-restart when fault removed.<br/>             Ingress Protection: IP22 Compliant</p>  | <p><b>General</b></p> <p>Dimensions: 4.62"(117.3mm) x 1.98"(50.3mm) x 1.40"(35.5mm)</p> <p>AC Input: Interchangeable Plugs for Worldwide Use<br/>             Output Plug: Barrel Type: 5.5mm x 2.1mm x 10mm<br/>             Center positive (others available)</p> <p>Weight: 0.60 pounds</p>   |

Specifications subject to change.  
 PSAW65I: May 4, 2018

| Model No.       | Output voltage | Current | Total Power | Output Regulation | Ripple & Noise (Vp-p) <sup>1</sup> | Efficiency Level |
|-----------------|----------------|---------|-------------|-------------------|------------------------------------|------------------|
| PSAW65I-12-B1   | 12VDC          | 5A      | 60W         | ±5%               | 200mV                              | VI               |
| PSAW65I-13-B1   | 15VDC          | 4.33A   | 65W         | ±5%               | 200mV                              | VI               |
| PSAW65I-13-1-B1 | 18VDC          | 3.61A   | 65W         | ±5%               | 200mV                              | VI               |
| PSAW65I-13-2-B1 | 19VDC          | 3.42A   | 65W         | ±5%               | 200mV                              | VI               |
| PSAW65I-14-B1   | 24VDC          | 2.70A   | 65W         | ±5%               | 240mV                              | VI               |
| PSAW65I-17-B1   | 36VDC          | 1.80A   | 65W         | ±5%               | 360mV                              | VI               |
| PSAW65I-18-B1   | 48VDC          | 1.35A   | 65W         | ±5%               | 480mV                              | VI               |

1. Ripple and noise is measured at output within 20MHz bandwidth, at rated line voltage and full load, with a 10  $\mu$ F tantalum capacitor in parallel with a 0.1  $\mu$ F ceramic capacitor across the output.

### Mechanical Outline



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