

PSAW65I Power Supply Series (65W)



Features:

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



Description:

The PSAW65I series of AC/DC wall mount switching power supplies provide 60-65 watts of continuous power. They are Class II devices with interchangeable AC plugs that provide ease of use in several regions throughout the world. All models meet FCC, EN55032, and CISPR32 class B emission limits, and comply with UL, IEC, DOE level VI, CE, and more.

Model Number	Voltage	Current	Total Power	Output Regulation	Ripple & Noise (P-P)	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	2.7A	65W	±5%	240mV	VI
PSAW65I-17-B1	36VDC	1.80A	65W	±5%	360mV	VI
PSAW65I-18-B1	48VDC	1.35A	65W	±5%	480mV	VI

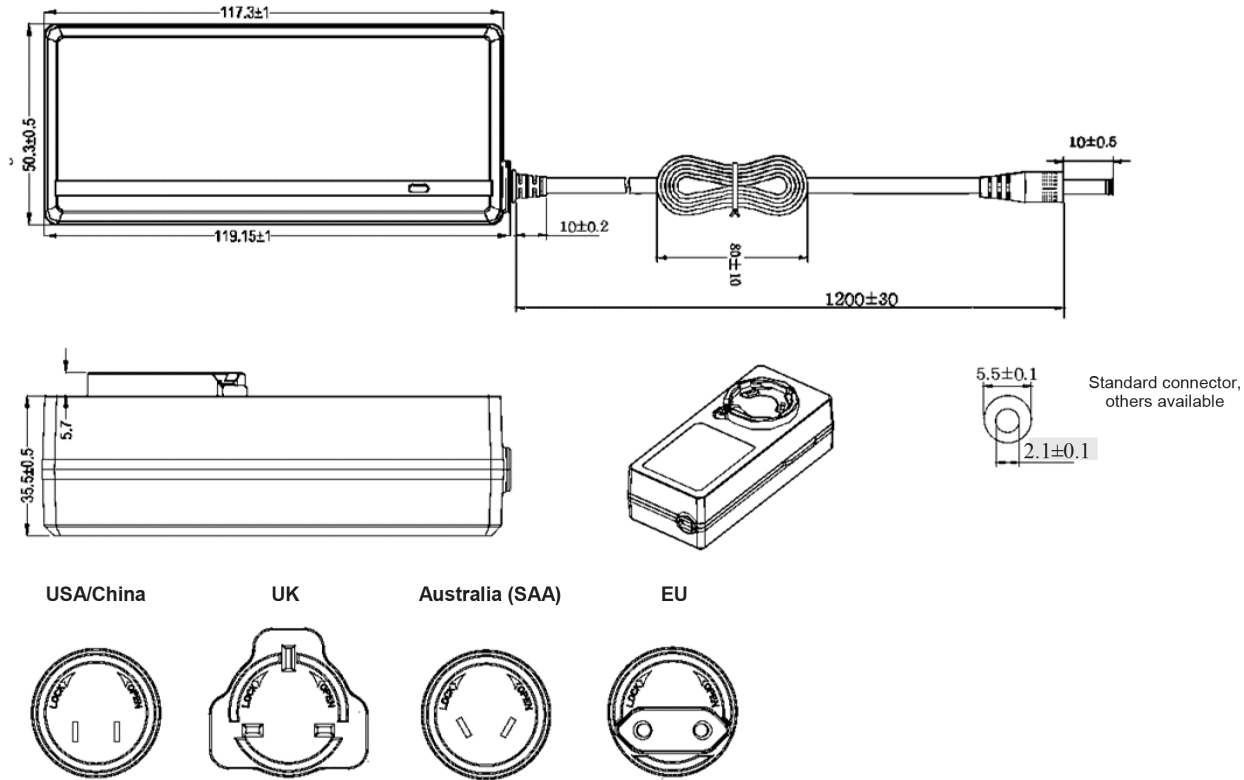
Notes:

1. Ripple and noise is measured at output within 20MHz bandwidth, at rated line voltage and full load, with a 10 μF tantalum capacitor in parallel with a 0.1 μF ceramic capacitor across the output.
2. Shipped with USA AC Blades; others ordered separately.

Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	1.5A Max.
Inrush Current	<40A peak @ 264VAC, cold start at 25°C
No Load Power Consumption	<210mW, meets DOE level VI Requirements
Output	
Total Output	65W, see table for details
Output Voltage	See table
Turn on Time	<3S @100-200VAC input & full output load
Rise Time	20mS max. @full load
Fall Time	20mS max. @full load
Hold Up Time	10mS min @ full load 115VAC input 20mS min @ full load 230VAC input
Line Regulation	± 1% of rated output voltage at full load
Load Regulation	± 5% of rated voltage from 0 to full load
Transient Response	Maximum voltage excursion of 5% for 25% load change with 0.25A/uS slew rate Recovery time 200µS
Efficiency	Meets DOE level VI requirements
Protection Features	
Overcurrent Protection	150-200% Max. of rated current. Auto-restart when fault removed.
Short Circuit Protection	Hiccup Mode. Auto Recovery
Ingress	IP22 Compliant
Environmental	
Operating Temperature	0°C to 60°C (Derate output power linearly from 100% at 40°C to 50% at 60°C)
Storage Temperature	-20°C to +80°C
Operating Humidity	10% - 90% non-condensing
Operating Altitude	<2000m
General Specifications	
Dimensions	4.62"(117.3mm) x 1.98"(50.3mm) x 1.40"(35.5mm)
Weight	0.60lbs
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Receptacle	Interchangeable Plugs for Worldwide Use
DC output Plug	Barrel Type: 5.5mm x 2.1mm x 10mm Center positive (others available)

Specifications Continued	
Safety	
Approved to USA/Canada	UL62368-1 cUL62368-1
Approved to Europe	CB Report EN62368-1
*Consult with TT Electronics for information on additional country safety approvals	
EMC	
EMC	FCC Class B Radiated & Conducted CISPR32 Class B Radiated & Conducted EN55032 Class B Radiated & Conducted
Harmonic Currents	IEC 61000-3-2
Voltage Flicker	IEC 61000-3-3
Electrostatic Discharge	IEC 61000-4-2: ±8 KV air, ±4 KV contact
Radiated Immunity	IEC 61000-4-3: 3V/m
EFT/Burst	IEC 61000-4-4: ±1 KV
Surge Immunity	IEC 61000-4-5: ±1 KV differential mode
Conducted Immunity	IEC 61000-4-6: 3Vrms
Magnetic Field	IEC 61000-4-8: 1A/m
Dips/Interruptions	IEC 61000-4-11: 30% reduction for 500 ms, and >95% reduction for 10 ms

Diagrams



Standard connector, others available

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Thermal Derating Curve

