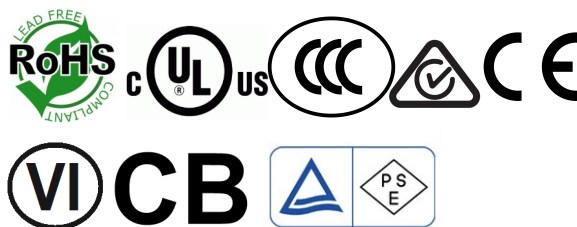




PSAD65 Series 65W Power Supply



- Class I and II Configurations Available
- Efficiency Level VI
- <210mW No Load Power Consumption
- Short Circuit Protection
- Overload Protection
- No Load Operation



Electrical Specifications

Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
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

Output Power	65W max, see table for details
Output Voltage	see table
Turn On Time	<3S @ 100-240VAC 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
Line Regulation	20mS min @ full load 230VAC input
Load Regulation	± 1% of rated output voltage at fixed load
Transient Response	± 5% of rated voltage from 0 to full load
Efficiency	Maximum voltage excursion of 5% for 25% load change with 0.25A/uS slew rate. Recovery time: 200uS
	Meets DOE level VI requirements

Protection

Short Circuit Protection	Hiccup mode. Auto recovery.
Overcurrent Protection	150-200% of rated current. Auto-restart when fault removed.
Ingress Protection	IP22 Compliant

Environmental & Operating

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
Humidity	10% - 90% non-condensing
Operating Altitude	<2000m
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient

Compliance

Safety Approvals

USA	UL60950-1
Canada	cUL60950-1
Europe	CB Report, CE Report

EMC:

USA	FCC Class B Radiated & Conducted
Canada	CISPR22 Class B Radiated & Conducted
Europe	EN55022 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

General

Dimensions	4.72"(120.3mm) x 1.98"(50.3mm) x 1.32"(33.6mm)
AC Input	IEC60320 C14, C6, C8, C18
Output Plug	Barrel Type: 5.5mm x 2.1mm x 10mm Center positive (others available)
Weight	0.60 pounds

Your Partners in Power.....

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Website: www.powerpartners-inc.com

Specifications subject to change.
PSAD65: May 24, 2018

Model No.	Output voltage	Current	Total Power	Output Regulation	Ripple & Noise (Vp-p) ¹	Efficiency Level
PSAD65-12-B1	12VDC	5A	60W	±5%	200mV	VI
PSAD65-13-B1	15VDC	4.33A	65W	±5%	200mV	VI
PSAD65-13-1-B1	18VDC	3.61A	65W	±5%	200mV	VI
PSAD65-13-2-B1	19VDC	3.42A	65W	±5%	200mV	VI
PSAD65-14-B1	24VDC	2.70A	65W	±5%	200mV	VI
PSAD65-17-B1	36VDC	1.80A	65W	±5%	360mV	VI
PSAD65-18-B1	48VDC	1.35A	65W	±5%	480mV	VI

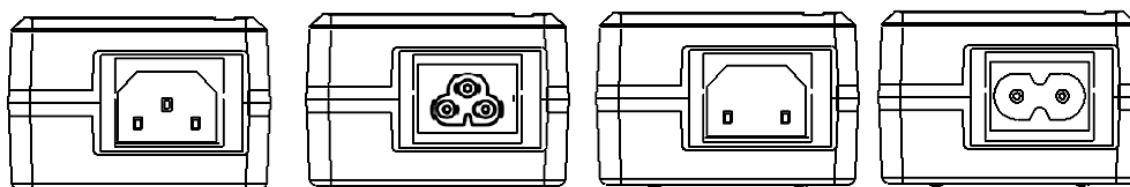
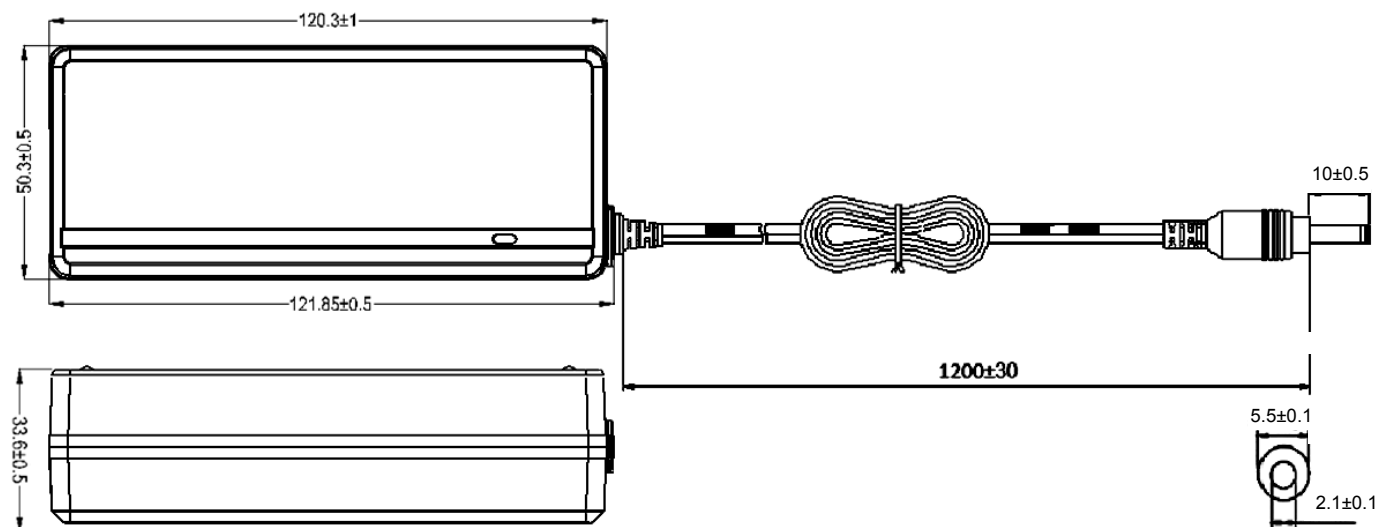
1. Ripple and noise is measured at output within 20MHz bandwidth, at rated line voltage and full load, with a 10 μ F tantalum capacitor in parallel with a 0.1 μ F ceramic capacitor across the output.

For C8 input receptacle, use model number PSAD65SF-XX-B2.

For C6 input receptacle, use model number PSAD65S-XX-B2.

For C18 input receptacle, use model number PSAD65F-XX-B2.

Mechanical Outline



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[PSAD65-18-B1](#) [PSAD65-14-B1](#) [PSAD65-12-B1](#)