PSAD65 Power Supply Series (65W)



Features:

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



Description:

The PSAD65 series of AC/DC switching power supplies are for 60-65 watts of continuous output power. They are available as Class I or Class II devices with the inlet of the IEC320/C14, C6, C8, or C18 to mate with an interchangeable cord for worldwide use. All models meet FCC, EN55032, and CISPR32 class B emission limits, and comply with UL, IEC, DOE level VI, CE, and more.

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

Notes:

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

For C8 input receptacle, use model number PSAD65SF-XX-B1.

For C6 input receptacle, use model number PSAD65S-XX-B1.

For C18 input receptacle, use model number PSAD65F-XX-B1.

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Specifications Input				
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			
Ou	tput			
Output Power	65W max, see table for details			
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 20mS min @ full load 230VAC input			
Line Regulation	±1% of rated output voltage at fixed 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: 200uS			
Efficiency	Meets DOE level VI requirements			
Protectio	n Features			
Overcurrent Protection	150-200% of rated current. Auto-restart when fault removed.			
Short Circuit Protection	Hiccup mode. Auto recovery			
Ingress	IP22 Compliant			
Enviro	nmental			
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			
General Sp	ecifications			
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	0.60lbs			
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient			

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Specifications Continued					
Safety					
	UL62368-1				
	cUL62368-1				
	CB Report				
Approvals	CE Report				
	CCC (China)				
	PSE J61558 (Japan)				
	RCM (Australia)				
*Consult with TT Electronics for information on additional coun	try safety approvals, including applicability of approvals on a model to model basis.				
	EMC				
	FCC Class B Radiated & Conducted				
EMC	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				
Power Frequency Magnetic Field Immunity	IEC 61000-4-8: 1A/m				
Dips/Interruptions	IEC 61000-4-11: 30% reduction for 500 ms, and >95% reduction for				
	10 ms				

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Diagrams 120.3±1 121.85±0.5 1200±30 5.5±1 2.1±1

