











- 3"×2" miniature size
- · Universal AC input / Full range
- Class II (without FG) installations
- No load power consumption<0.1W
- High efficiency up to 91%
- · For 1U applications
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- -30~70°C wide range of operating temperature
- · Operating altitude up to 5000 meters
- · LED indicator for power on
- · 3 years warranty













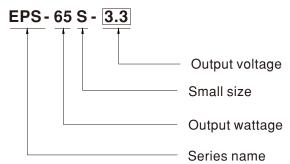
Applications

- Industrial electrical equipment
- Mechanical equipment
- Factory automation equipment
- · Handheld electronic device

Description

EPS-65S is a 65W highly reliable green PCB type industrial power supply with a high power density on the 3" by 2" footprint. It accepts $80\sim264$ VAC input and offers various output voltages between 3.3V and 48V. The working efficiency is up to 91% and the extremely low no load power consumption is down below 0.1W. EPS-65S is able to be used for Class II (no FG) system design.

■ Model Encoding



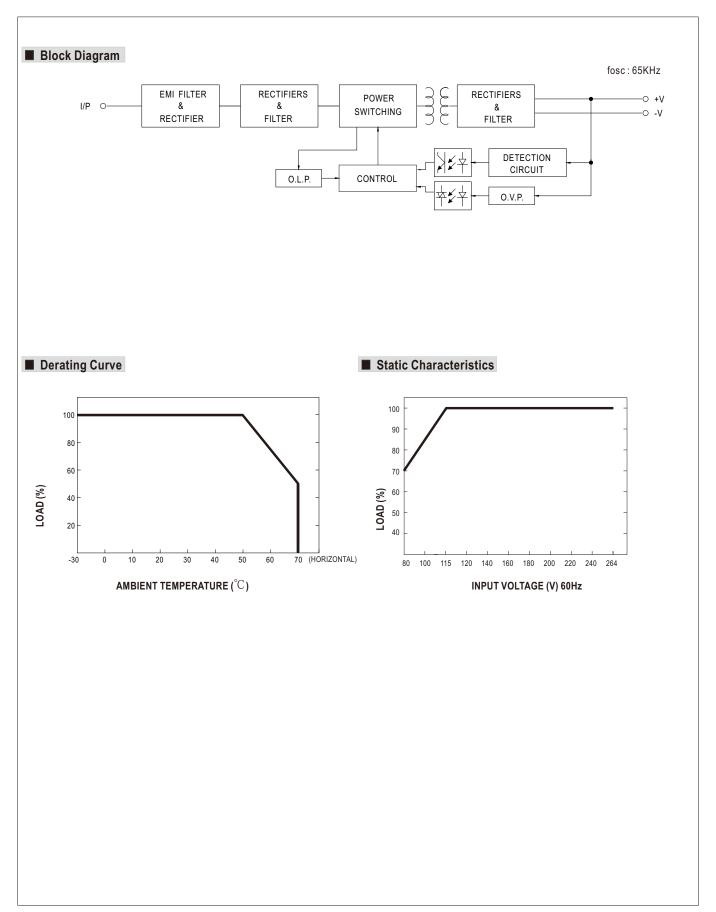
SPECIFICATION

ORDER NO.	•	EPS-65S-3.3	EPS-65S-5	EPS-65S-7.5	EPS-65S-12	EPS-65S-15	EPS-65S-24	EPS-65S-48
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	48V
OUTPUT	RATED CURRENT	10A	10A	8A	5.42A	4.34A	2.71A	1.36A
	CURRENT RANGE	0 ~ 11A	0 ~ 11A	0 ~ 8.8A	0 ~ 5.96A	0 ~ 4.77A	0 ~ 2.98A	0 ~ 1.49A
	RATED POWER	33W	50W	60W	65W	65.1W	65W	65.3W
	-	36.3W	55W	66W	71.5W	71.6W	71.5W	71.5W
	RIPPLE & NOISE (max.) Note.3		80mVp-p	80mVp-p	120mVp-p	150mVp-p	240mVp-p	300mVp-p
	VOLTAGE ADJ.RANGE	2.9~3.6V	4.7~5.5V	7.12~8.3V	11.4~13.2V	13.5~16.5V	22.8~27.6V	45.6~52.8V
	VOLTAGE TOLERANCE Note.4		±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	500ms, 30ms / 23	1	, 30ms / 115VAC at		<u>= 1.070</u>	_ 1.0 /0	<u> </u>
	HOLD UP TIME (Typ.)	30ms / 230VAC 12ms / 115VAC at full load						
	, , ,	80 ~ 264VAC						
	FREQUENCY RANGE	80 ~ 264VAC 47 ~ 63Hz						
INPUT	EFFICIENCY (Typ.)	80%	84%	85%	88%	89%	90%	91%
INFUI	AC CURRENT (Typ.)	1.5A / 115VAC	1A / 230VAC	0070	0070	0970	90%	9170
	INRUSH CURRENT (Typ.)			201/40				
			V/115VAC 50A/23	BUVAC				
	LEAKAGE CURRENT(max.)	0.25mA/264VAC						
	OVERLOAD	115 ~ 150% rated			6 6 11 1111			
				overs automatically				
PROTECTION	OVER VOLTAGE	3.8~4.46V	5.75~6.75V	8.62~11.3V	13.8~16.2V	17.25~20.25V	27.6~32.4V	55.2~64.8V
				tage, re-power on t	o recover			
ENVIRONMENT	WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20% ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85 °C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)						
	OPERATING ALTITUDE Note.6							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EN60335-1, EAC TP TC 004 approved						
SAFETY &	ISOLATION LEVEL	Primary-Secondary: 2xMOPP						
EMC	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC						
(Note. 7)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH						
	EMC EMISSION	Compliance to EN55032(CISPR32) Class B, EN61000-3-2,3, EAC TP TC 020						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, Heavy industry Level criteria A, EAC TP TC 020						
OTHERS	MTBF	959.1Khrs min. MIL-HDBK-217(25°C)						
	DIMENSION		or 3" * 2" *0.945" ir	nch (L*W*H)				
	PACKING	0.11Kg; 120pcs/1	4.2Kg/0.94CUFT					
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the derating curve for more details. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power. (as available on http://www.meanwell.com) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 							



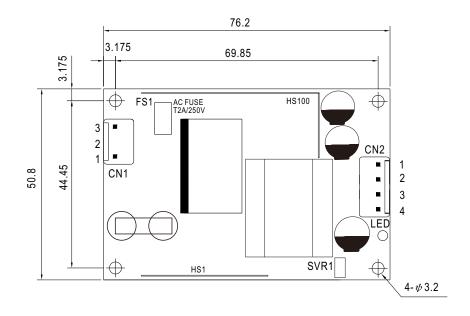
65W Single Output Switching Power Supply

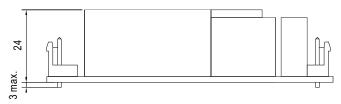
EPS-65S series



■ Mechanical Specification

Case No. Unit:mm





AC Input Connector (CN1): JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal	
1	AC/N	ICTVIID	IOT OVILL DAT DA A	
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent	
3	AC/L	or oquiraioni	or oquiraioni	

${\tt DC\ Output\ Connector\ (CN2): JST\ B2P-VH\ or\ equivalent}$

Pin No.	Assignment	Mating Housing	Terminal
1	+V		
2	+V	JST VHR	JST SVH-21T-P1.1
3	-V	or equivalent	or equivalent
4	-V		

■ Installation Manual

 $Please\ refer\ to: http://www.meanwell.com/manual.html$