



■ Features

- 3"×2" miniature size
- · Universal AC input / Full range
- Class

 (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



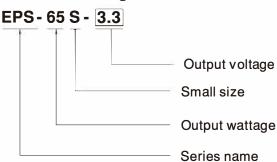
Applications

- · 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 80~264VAC 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.

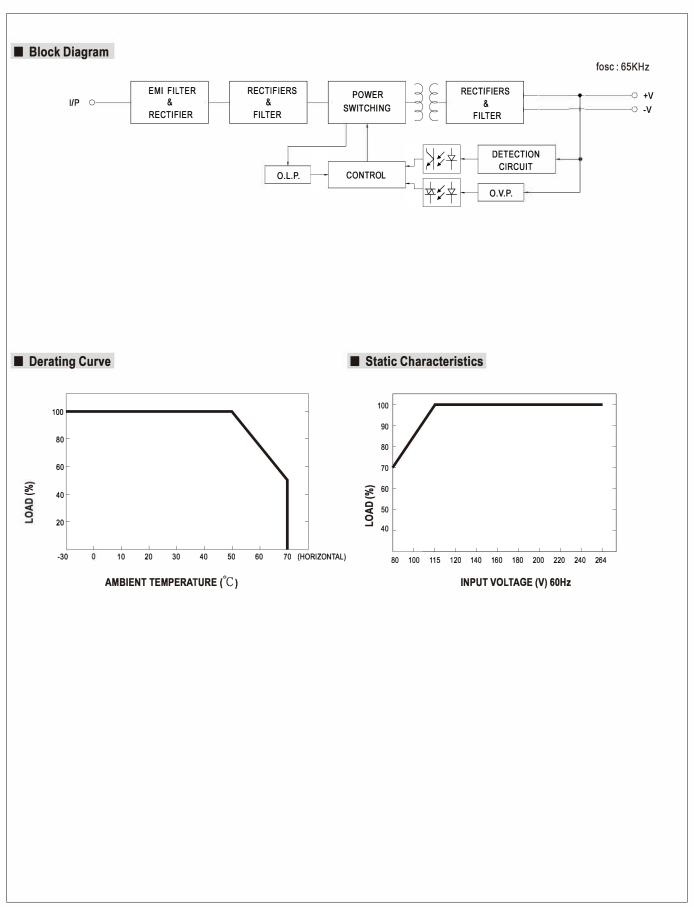
■ Model Encoding



SPECIFICATION

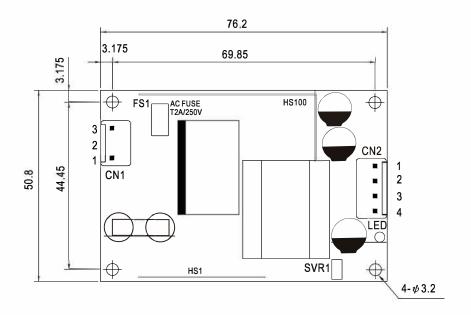
ORDER NO.		EPS-65S-3.3	EPS-65S-5	EPS-65S-7.5	EPS-65S-12	EPS-65S-15	EPS-65S-24	EPS-65S-48	
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	48V	
	RATED CURRENT	10A	10A	8A	5.42A	4.34A	2.71A	1.36A	
	CURRENT RANGE	0 ~ 11A	0 ~ 11A	0 ~ 8.8A	0 ~ 5.96A	0 ~ 4.77A	0~2.98A	0 ~ 1.49A	
	RATED POWER	33W	50W	60W	65W	65.1W	65W	65.3W	
OUTPUT	PEAK LOAD(10sec.) Note.2	36.3W	55W	66W	71.5W	71.6W	71.5W	71.5W	
	RIPPLE & NOISE (max.) Note.3	80mVp-p	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	士0.5%	士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		30ms / 115VAC at	full load				
	HOLD UP TIME (Typ.)	30ms / 230VAC	12ms / 115VAC		Tall Toda				
	, , ,	80 ~ 264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
INPUT	EFFICIENCY (Typ.)	80%	84%	85%	88%	89%	90%	91%	
01	AC CURRENT (Typ.)	1.5A / 115VAC	1A / 230VAC	00 /0	00 /0	0370	30 /0	3170	
	INRUSH CURRENT (Typ.)			0)/// C					
	LEAKAGE CURRENT(max.)	COLD STAR 30A/115VAC 50A/230VAC 0.25mA/264VAC							
	LLANAGE CORRENT(IIIax.)		1						
	OVERLOAD	115 ~ 150% rated		overs automatically	ofter fault aanditi	an is removed			
PROTECTION		•		i i			07.0.00.41/	EE 0 04 0V	
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	
	MODICINO TEMP	• • • • • • • • • • • • • • • • • • • •	<u> </u>	age, re-power on to	o recover				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
ENVIRONMENT	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	UL60950-1, TUV EN60950-1, 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 Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, Heavy industry Level criteria A, EAC TP TC 020							
	EMC IMMUNITY				avy industry Level	criteria A, EAC TP	TC 020		
	MTBF	959.1Khrs min. MIL-HDBK-217(25°C) 76.2*50.8*24mm or 3" * 2" *0.945" inch (L*W*H)							
OTHERS	DIMENSION			ch (L*W*H)					
	PACKING	0.11Kg; 120pcs/1	4.2Kg/0.97CUFT						
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) 								

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		
ſ	1	AC/N	IOTAUD	ICT CVIII OAT DA A		
	2	2 No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent		
	3	AC/L	or oquivalent	or oquivalent		

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