





























#### Features

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

  (without FG) installations
- No load power consumption<0.1W</li>
- · 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

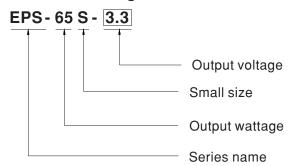
#### **■** GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

## 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



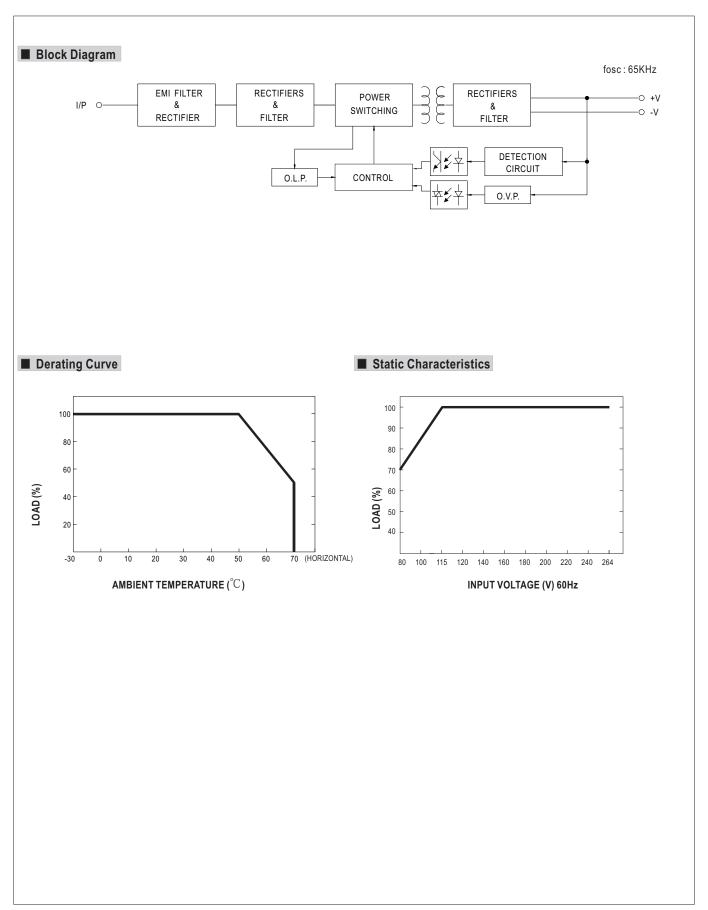
### **SPECIFICATION**

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	
OUTPUT	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	
	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	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%	土0.5%	土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	SOVAC 500ms	, 30ms / 115VAC at	full load				
	HOLD UP TIME (Typ.)	30ms / 230VAC 12ms / 115VAC at full load							
		80 ~ 264VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
INPUT	EFFICIENCY (Typ.)	80%	84%	85%	88%	89%	90%	91%	
	AC CURRENT (Typ.)	1.5A / 115VAC	1A / 230VAC						
	INRUSH CURRENT (Typ.)	COLD STAR 30/	A/115VAC 50A/23	BOVAC					
	LEAKAGE CURRENT(max.)	0.25mA/264VAC	4						
	. ,	115 ~ 150% rate	d output power						
	OVERLOAD			overs automatically	after fault conditi	on is removed			
PROTECTION		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	
	OVER VOLTAGE	*** ****		tage, re-power on t		17.20 20.201	27.0 02.11	00.2 01.01	
	WORKING TEMP.	* * *	er to "Derating Cur						
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
ENVIRONMENT	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 BS EN/EN62368-1, BS EN/EN60335-1, CCC GB4943.1, EAC TP TC 004 approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
(Note. 7)	EMC EMISSION	Compliance to BS EN/EN55032(CISPR32) Class B, BS EN/EN61000-3-2,3, GB9254.1 Class B,GB17625 Class A,EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS	S EN/EN61000-4-2	,3,4,5,6,8,11, BS EN	I/EN55035, Heavy	industry Level, EA	C TP TC 020		
	MTBF	3334.3K hrs m	in. Telcordia S	R-332 (Bellcore)	; 706.6K hrs min	. MIL-HDBK-2	217F (25°C)		
OTHERS	DIMENSION	76.2*50.8*24mm or 3" * 2" *0.945" inch (L*W*H)							
	PACKING		4.2Kg/0.94CUFT	, ,					
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F &amp; 47 μ F parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>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).</li> <li>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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</li> <li>Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>								



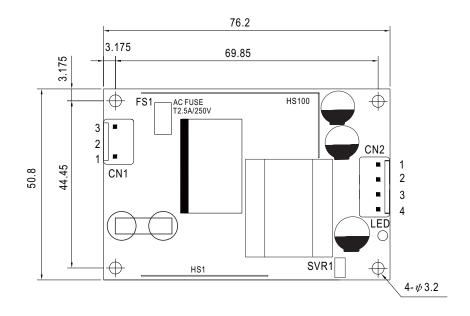
# 65W Single Output Switching Power Supply

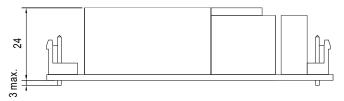
# EPS-65S series



### ■ 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 OVILLOAT DA A	
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent	
3	AC/L	or oquiraioni		

### ${\tt DC\ Output\ Connector\ (CN2): JST\ B4P-VH\ or\ equivalent}$

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