















- 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

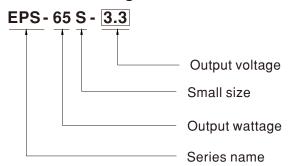
■ GTIN CODE

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



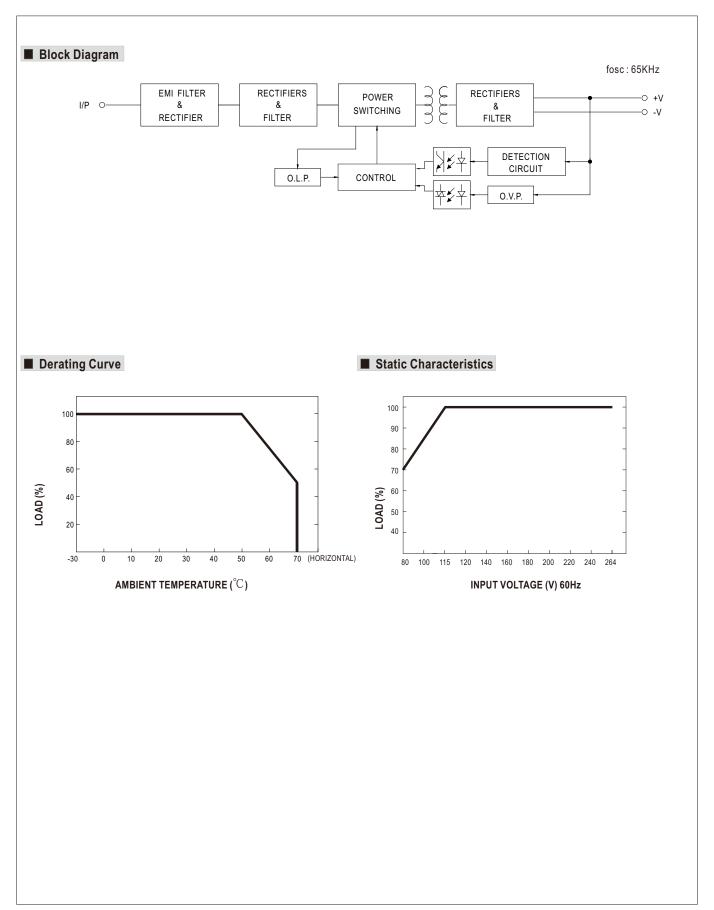
SPECIFICATION

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%	±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		1.070		1.070	
	HOLD UP TIME (Typ.)	30ms / 230VAC 12ms / 115VAC at full load							
		80 ~ 264VAC							
	FREQUENCY RANGE	00 ~ 204 VAC 47 ~ 63Hz							
INPUT		80%	84%	85%	88%	89%	90%	91%	
INFOI	AC CURRENT (Typ.)	1.5A / 115VAC		00 /0	00 /0	09 /0	90 /0	91/0	
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)		1A / 230VAC	10) /4 0					
		COLD STAR 30A/115VAC 50A/230VAC							
	LEAKAGE CURRENT(max.)	0.25mA/264VAC							
	OVERLOAD	115 ~ 150% rated			6 6 11 1111				
PROTECTION				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				
	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	UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, EAC TP TC 004 approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-0/P: 3KVAC							
EMC	ISOLATION RESISTANCE	/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, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, Heavy industry Level , EAC TP TC 020							
	MTBF	3334.3K hrs min. Telcordia SR-332 (Bellcore) ; 706.6K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION		or 3" * 2" *0.945" in	ich (L*W*H)					
	PACKING	0.11Kg; 120pcs/1	4.2Kg/0.94CUF1						
NOTE	1. All parameters NOT spects 2. 33% Duty cycle maximur 3. Ripple & noise are meast 4. Tolerance: includes set u. 5. Derating may be needed 6. The ambient temperature than 2000m(6500ft). 7. The power supply is consistill meets EMC directives (as available on http://wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	m within every 30 ured at 20MHz of up tolerance, line under low input a derating of 3.5° sidered a compost. For guidance w.meanwell.com	O seconds. Avera of bandwidth by use regulation and less voltages. Please C/1000m with far nent which will be on how to perform	age output power using a 12" twisted bad regulation. It check the deration less models and the installed into a method these EMC tes	should not exceed pair-wire terming curve for more of 5°C/1000m with the second	ed the rated pownated with a 0.1u e details. with fan models for the final equipm o "EMI testing of	er. If & 47uf parallel or operating altitute ent must be re-c component pow	de higher	



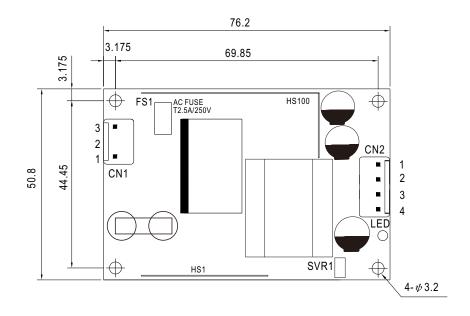
65W Single Output Switching Power Supply

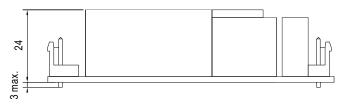
EPS-65S series



■ 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	10T 0\/LL 04T D4 4
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	AC/L	or oquiraioni	or oquiraioni

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