

65W Single Output Switching Power Supply

EPS-65S series















- · 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

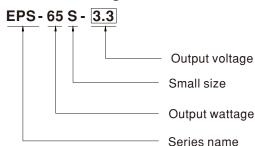
GTIN CODE

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







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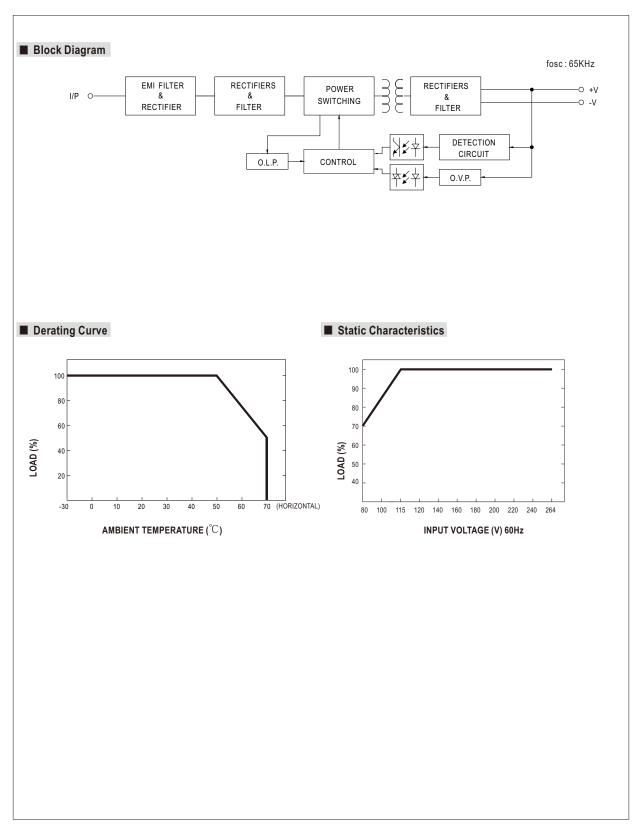
SPECIFICATION

ORDER NO.		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	
PEAK LOAD(10sec.) Note.2	36.3W	55W	66W	71.5W	71.6W	71.5W	71.5W	
1 /		80mVp-p	80mVp-p	120mVp-p	150mVp-p		300mVp-p	
, ,							45.6~52.8V	
	±2.0%	±2.0%	±2.0%		±1.0%	±1.0%	±1.0%	
LINE REGULATION	土0.5%	土0.5%	±0.5%	±0.5%	土0.5%	±0.5%	±0.5%	
LOAD REGULATION	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	500ms, 30ms / 23	0VAC 500ms.	30ms / 115VAC at			1.71		
,	,							
FREQUENCY RANGE	47 ~ 63Hz							
	80%	84%	85%	88%	89%	90%	91%	
(): /			0070	3370	3370	3373	0.70	
(): /		W110 W10 00/ W20	ovito					
		l outnut nower						
OVERLOAD								
OVER VOLTAGE	,,		,			27.6~32.4\/	55.2~64.8V	
					17.20 20.200	21.0 02.41	33.2 04.00	
WORKING TEMP.								
WORKING HUMIDITY	, ,							
STORAGE TEMP., HUMIDITY	•							
	·							
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							
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC							
ISOLATION RESISTANCE	ICE I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
EMC EMISSION	Compliance to BS	EN/EN55032(CISF	PR32) Class B, BS E	32) 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)							
DIMENSION	76.2*50.8*24mm or 3" * 2" *0.945" inch (L*W*H)							
PACKING	0.11Kg; 120pcs/1	4.2Kg/0.94CUFT						
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 4. Tolerance: includes set up tolerance, line regulation and load regulation. 5. Derating may be needed under low input voltages. Please check the derating curve for more details. 6. 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). 7. 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) 3. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								
	DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER PEAK LOAD(10sec.) Note.2 RIPPLE & NOISE (max.) Note.3 VOLTAGE ADJ.RANGE VOLTAGE TOLERANCE Note.4 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) INRUSH CURRENT (Typ.) VOERLOAD OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT OPERATING ALTITUDE Note.6 VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT spe 2. 33% Duty cycle maximur 3. Ripple & noise are meas 4. Tolerance: includes set u 5. Derating may be needed 6. The ambient temperature than 2000m(6500ft). 7. The power supply is cons still meets EMC directives (as available on http://www.	DC VOLTAGE RATED CURRENT CURRENT RANGE 0 ~ 11A RATED POWER 33W PEAK LOAD(10sec.) Note.2 36.3W RIPPLE & NOISE (max.) Note.3 80mVp-p VOLTAGE ADJ.RANGE 2.9~3.6V VOLTAGE TOLERANCE Note.4 ±2.0% LINE REGULATION ±0.5% LOAD REGULATION ±2.0% SETUP, RISE TIME 500ms, 30ms / 23 HOLD UP TIME (Typ.) 30ms / 230VAC VOLTAGE RANGE Note.5 80 ~ 264VAC FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 80% AC CURRENT (Typ.) 1.5A / 115VAC INRUSH CURRENT (Typ.) COLD STAR 30/ LEAKAGE CURRENT (max.) 0.25mA/264VAC OVERLOAD 115 ~ 150% rated Protection type: WORKING TEMP30 ~ +70°C (Ref WORKING HUMIDITY 20% ~ 90% RH note.5 8000 meters VIBRATION 10 ~ 500Hz, 2G 1 SAFETY STANDARDS UL62368-1, TUV WITHSTAND VOLTAGE I/P-O/P: 3KVAC ISOLATION RESISTANCE I/P-O/P: 3KVAC ISOLATION RESISTANCE I/P-O/P: 3KVAC ISOLATION RESISTANCE I/P-O/P: 100M Oh EMC EMISSION Compliance to BS EMC IMMUNITY COMPLETED TO THE TOTAL TO THE TOTAL TO THE TO THE TOTAL TH	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE	





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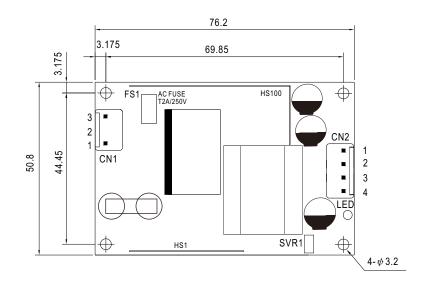


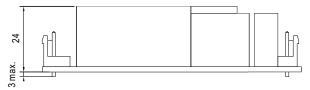


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■ Mechanical Specification

Case No. Unit:mm





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

	Pin No.	Assignment	Mating Housing	Terminal	
	1	AC/N	IOTAUD	IOT CV/II OAT DA A	
	2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent	
ı	3	AC/L	or oquivaloni		

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





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