



MEAN WELL EPS-65 Series 65W Single Output Switching Power Supply Owner's Manual

[Home](#) » [MEAN WELL](#) » MEAN WELL EPS-65 Series 65W Single Output Switching Power Supply Owner's Manual 

MEAN WELL EPS-65 Series 65W Single Output Switching Power Supply



Contents

1 Features

2 SPECIFICATION

3 Mechanical Specification

4 Block Diagram

5 Output Derating

6 Static Characteristics

7 Documents / Resources

7.1 References

8 Related Posts

Features

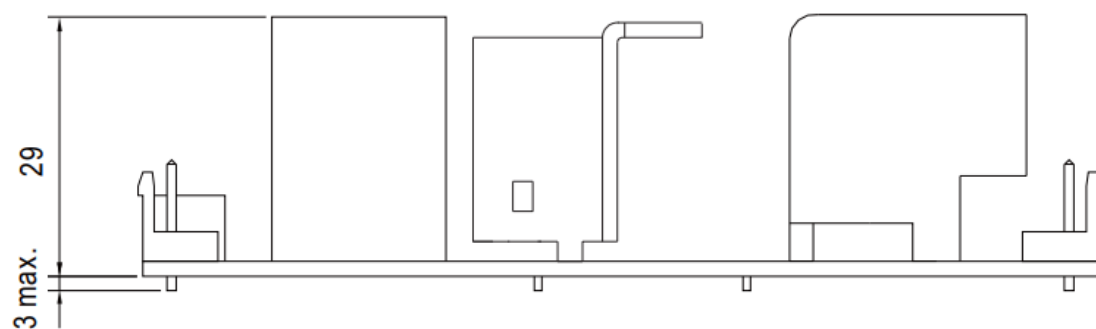
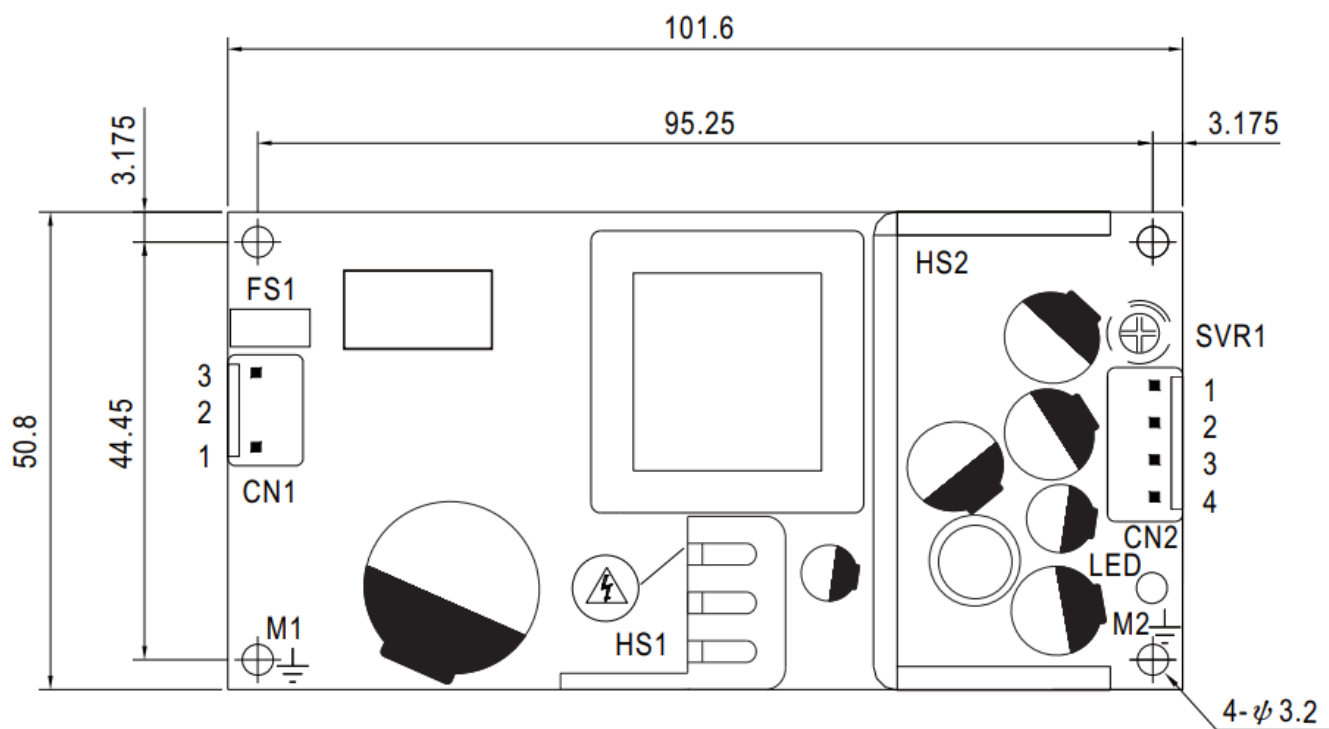
- Universal AC input / Full range
- Optional L-Bracket and cover
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 4" x 2" compact size
- LED indicator for power on
- No load power consumption<0.3W
- Operating altitude up to 4000 meters
- 3 years warranty

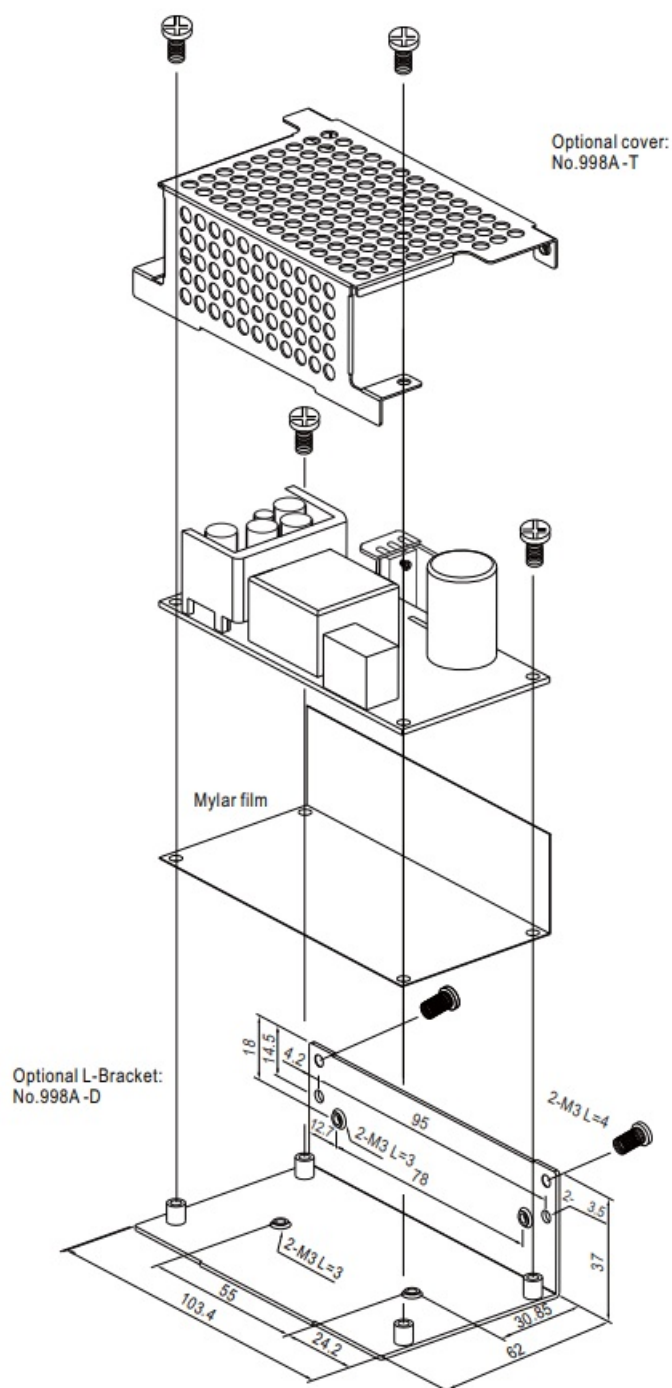
SPECIFICATION


MODEL		EPS-6 5-3.3	EPS-6 5-5	EPS-65 -7.5	EPS-65 -12	EPS-65 -15	EPS-65 -24	EPS-65 -36	EPS-65 -48
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V
	RATED CURRENT	11A	11A	8A	5.42A	4.34A	2.71A	1.81A	1.36A
	CURRENT RANGE	0 ~ 12A	0 ~ 12A	0 ~ 8.8A	0 ~ 6A	0 ~ 4.8A	0 ~ 3A	0 ~ 2A	0 ~ 1.5A
	RATED POWER	36.3W	55W	60W	65.04W	65.1W	65.04W	65.16W	65.28W
	PEAK LOAD(10 sec.) Note .6	39.6W	60W	66W	72W	72W	72W	72W	72W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	240mVp-p	280mVp-p	300mVp-p
	VOLTAGE ADJ. RANGE	3.1 ~ 3.6V	4.75 ~ 5.5V	7.13 ~ 8.25V	10.8 ~ 13.5V	13.5 ~ 16.5V	21.6 ~ 27V	32.4 ~ 39.6V	43.2 ~ 52.8V
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%

SAFETY & EMC (Note 4)	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
	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/EN55035, heavy industry level, EAC TP TC 020
OTHERS	MTBF	3077.6K hrs min. Telcordia SR-332 (Bellcore) ; 563.0K hrs min. MIL-HDBK -217F (25°C)
	DIMENSION	PCB:101.6*50.8*29mm (L*W*H) ; with optional CASE:103.4*62*37mm (L*W*H)
	PACKING	PCB: 0.15Kg; 96pcs/ 15.4 Kg/1.39CUFT ; with optional CASE: 0.3Kg; 45pcs/ 14.5Kg/0.63CUFT
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Derating may be needed under low input voltage. Please check the static characteristics for more details.</p> <p>5. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.</p> <p>6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. 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 supplies." (as available on http://www.meanwell.com)</p> <p>7. 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).</p> <p>※ Product Liability Disclaimer For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>	

Mechanical Specification





1.  HS1 ,HS2 cannot be shorted.
2. HS1 must have safety isolation distance with system case.

AC Input Connector (CN1): JST 83P-VH or equivalent

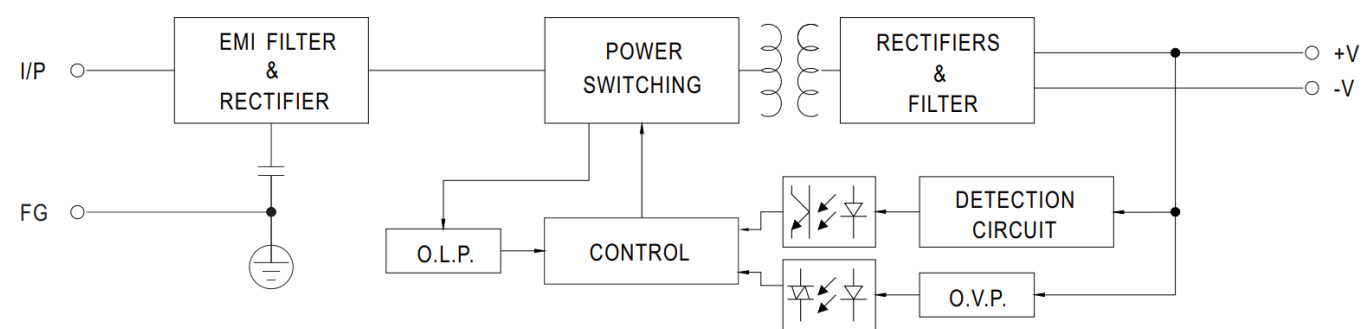
Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/L		

DC Output Connector (CN2) : JST B4P-VH or equivalent

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

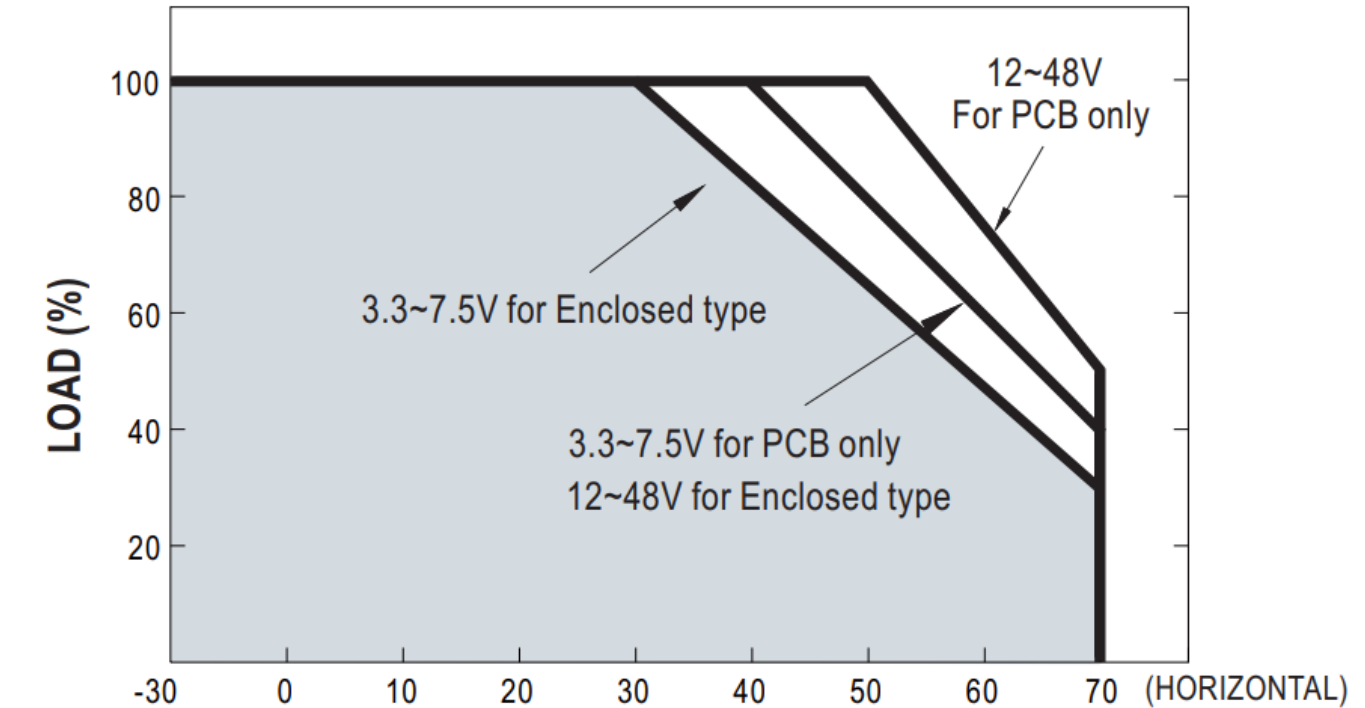
Grounding Required ;M1 and M2 are
Safety ground and should all be grounded

Block Diagram



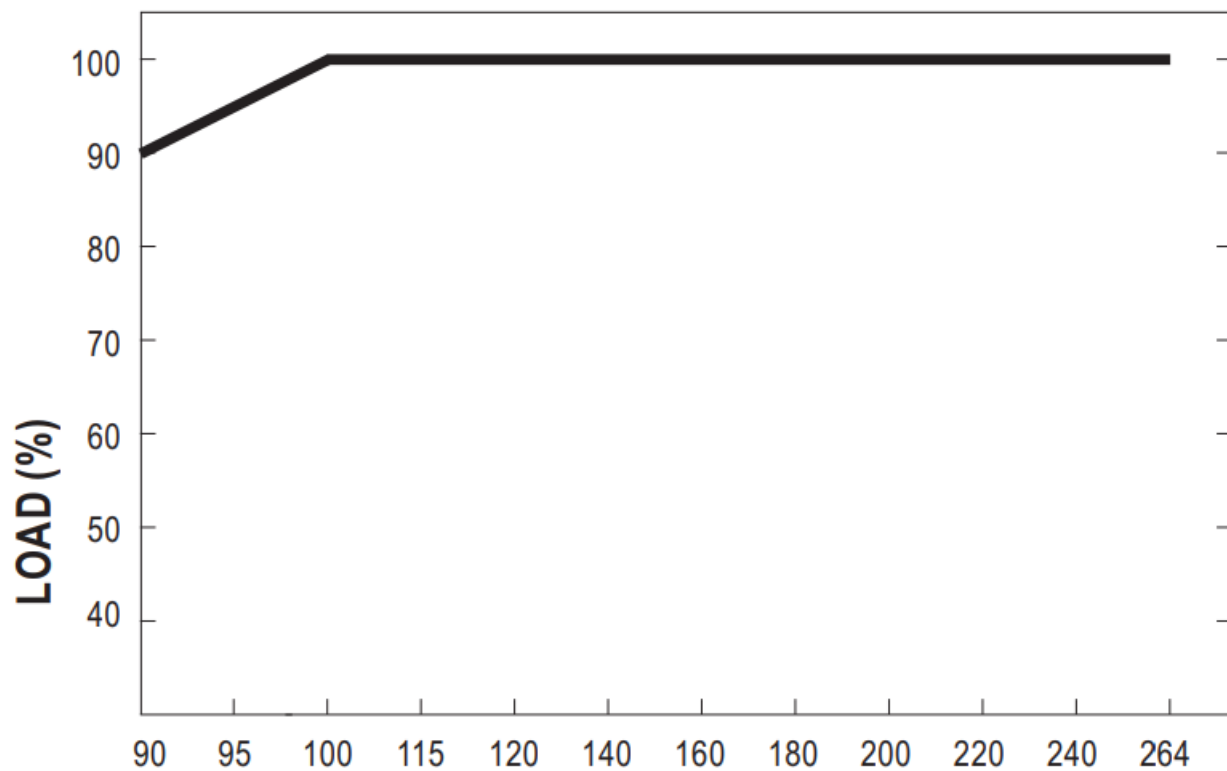
Output Derating

AMBIENT TEMPERATURE (°C)



Static Characteristics

INPUT VOLTAGE (V) 60Hz



EAC
TPTC004

cULus
UL62368-1




BS EN/EN62368-1

CB CE UK
IEC62368-1
CA



Documents / Resources

	<p>MEAN WELL EPS-65 Series 65W Single Output Switching Power Supply [pdf] Owner's Manual</p> <p>EPS-65-20230313, EPS-65 Series, EPS-65 Series 65W Single Output Switching Power Supply, 65W Single Output Switching Power Supply, Single Output Switching Power Supply, Switching Power Supply, Power Supply</p>
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References

- [TÜV Rheinland - Home | US | TÜV Rheinland](#)
- [MEAN WELL Switching Power Supply Manufacturer](#)
- [Product Liability Disclaimer-MEAN WELL Switching Power Supply Manufacturer](#)
- [Global Trade Item Number \(GTIN\)-MEAN WELL Switching Power Supply Manufacturer](#)