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MEAN WELL RT-65B 65W Triple Output Switching Power Supply User Guide

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RT-65 series



65W Triple Output Switching Power Supply



GTIN CODE

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

Features:

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- · Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty









IS13252 UL62368-1 BS EN/EN62368-1 1EC62368-1 TPTC004

SPECIFICATION

MODEL		RT-65A			RT-65B			RT-65C			RT-65D		
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	12V
	RATED CURRENT	6A	2.8A	0.5A	5A	2.8A	0.5A	5A	2.2A	0.5A	4A	1.5A	1A
	CURRENT RANGE Note.6	0 ~ 8A	0 ~ 3.5A	0 ~ 1A	0 ~ 8A	0 ~ 3.5A	0 ~ 1A	0 ~ 8A	0 ~ 3A	0 ~ 1A	0 ~ 8A	0 ~ 2A	0 ~ 1A
	RATED POWER Note.6	66.1W			64.6W			65.5W			68W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	80mVp-p	120mVp-p	80mVp-p	80mVp-p	120mVp-p	80mVp-p	80mVp-p	150mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V		
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±5.0%	±2.0%	±6.0%	±5.0%	±2.0%	+8,-4%	±5.0%	±2.0%	+4,-10%	±6.0%
	LINE REGULATION Note.4	±0.5%	±1.5%	±0.5%	±0.5%	±1.5%	±0.5%	±0.5%	±1.5%	±0.5%	±0.5%	±1.5%	±2.0%
	LOAD REGULATION Note.5	±1.0%	±3.0%	±1.0%	±1.0%	±3.0%	±1.0%	±1.0%	±3.0%	±1.0%	±1.0%	±3.0%	±4.0%
	SETUP, RISE TIME	500ms, 20ms/230VAC 1200			0ms, 30ms/115VAC at full load								
	HOLD UP TIME (Typ.)	60ms/230VAC 14ms/115VA			AC at full lo	ad							

MODEL		RT-65A	RT-65B	RT-65C	RT-65D				
	VOLTAGE RAN GE	00VAC surge for 5sec	. Without damage)						
	FREQUENCY R ANGE	47 ~ 63Hz							
	EFFICIENCY(Ty p.)	76%	76%	77%	78%				
INP UT	AC CURRENT (Typ.)	2A/115VAC 1.2A/230VAC							
	INRUSH CURR ENT (Typ.)	COLD START 50A/230VAC							



110 ~ 150% rated output power					
condition is removed					
CH1: 5.75 ~ 6.75V					
condition is removed					
-40 ~ +85°C , 10 ~ 95% RH					
, Z axes					
IEC 60950-1:2005,					
1000-3-2,-3, EAC T					
35,BS EN/EN61000-					
IL-HDBK-217F (25°					
-					

OT HE RS

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambi ent temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation, when multi-channel output, it is recommended that CH1 load > 10%.
- 4. Line regulation is measured from low line to high line at rated load.
- 5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.
- 6. Each output can work within current range. But total output power can't exceed rated output power.

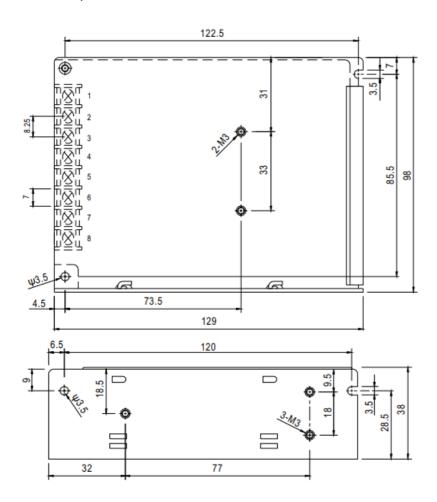
7. The power supply is considered a component which will be installed into a final equipment. All the EM C tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1 mm of thickne ss. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how t o perform these EMC tests, please refer to "EMI testing of component power supplies." (as available o n http://www.meanwell.com)

8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan m odels for operating altitude higher than 2000m(6500ft).

*Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

Mechanical Specification

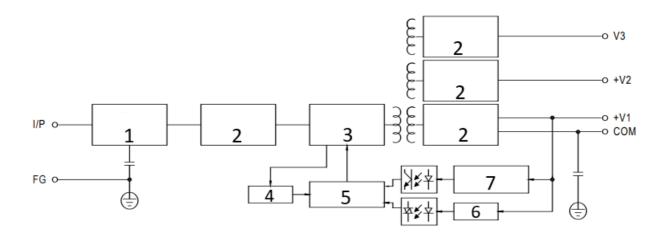
NO TE



Pin No.	Assignment
1	AC/L
2	AC/N
3	FG≟
4	NC
5	DC OUTPUT V3
6	DC OUTPUT +V2
7	DC OUTPUT COM
8	DC OUTPUT +V1

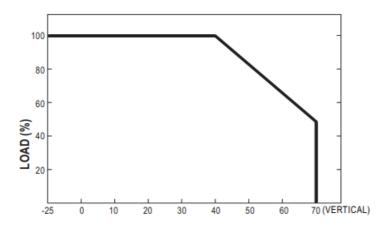
Block Diagram

fosc: 60KHz



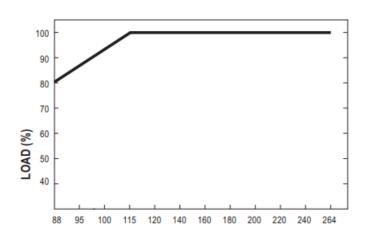
- 1. EMI FILTER
- 2. RECTIFIERS & FILTER
- 3. POWER SWITCHING
- 4. O.L.P.
- 5. CONTROL
- 6. O.V.P.
- 7. DETECTION CIRCUIT

Derating Curve



AMBIENT TEMPERATURE (°C)

Output Derating VS Input Voltage



INPUT VOLTAGE (VAC) 60Hz

File Name:RT-65-SPEC 2023-02-27

Downloaded from **Arrow.com**.

Documents / Resources



MEAN WELL RT-65B 65W Triple Output Switching Power Supply [pdf] User Guide RT-65B 65W Triple Output Switching Power Supply, RT-65B, 65W Triple Output Switching Power Supply, Triple Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply, Power Supply, Supply

References

• MEAN WELL Switching Power Supply Manufacturer

- Global Trade Item Number (GTIN)-MEAN WELL Switching Power Supply Manufacturer
- User Manual

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