



65W Dual Output Switching Power Supply

RPD-65 series



■ Features :

- Universal AC input/Full range
- 12V or 24V high peak output current capability
- Low leakage current<1mA
- Protections: Short circuit / Overload / Over voltage
- 60W free air convection, 77.1W with 18CFM forced air
- 100% full load burn-in test
- Fixed switching frequency at 65KHz
- 2 years warranty

User's Manual



UL62368-1



TUV



CB CE UK

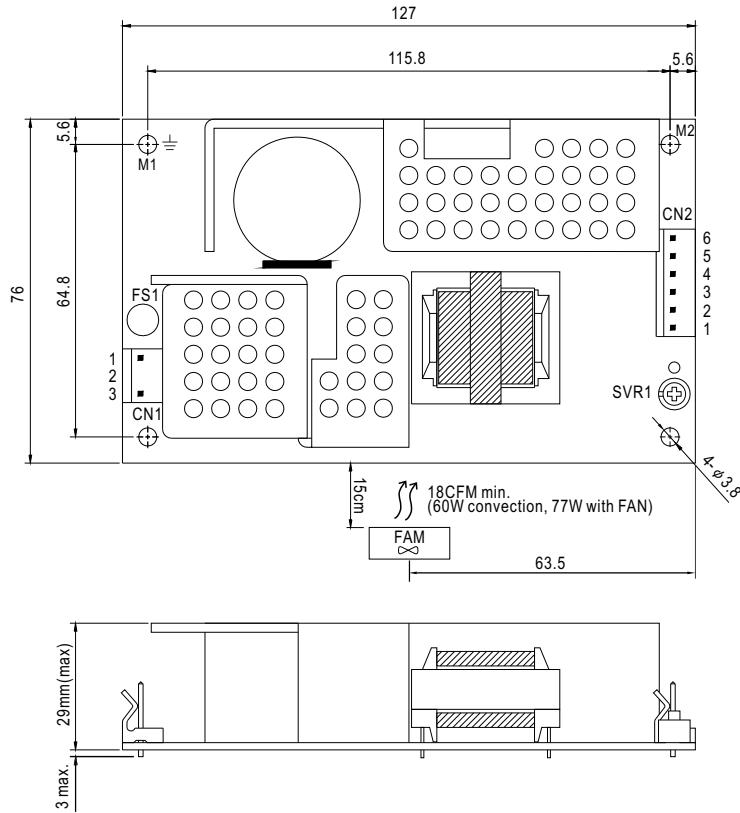
BS EN/EN62368-1 TPTC004 IEC62368-1

SPECIFICATION

MODEL	RPD-65C		RPD-65D	
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH1
	DC VOLTAGE	12V	5V	24V
	RATED CURRENT	4.5A	1.2A	2.25A
	CURRENT RANGE	0 ~ 5.8A	0 ~ 1.5A	0 ~ 2.9A
	PEAK LOAD Note.4	7.5A	Rated load	3.75A
	RATED POWER	60W		60W
	OUTPUT POWER (max.)	Rated output power for convection; 77.1W with 18CFM min. forced air		
	RIPPLE & NOISE (max.) Note.2	120mVp-p	50mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	CH1:11.4 ~ 12.8V		CH1:22.8 ~ 26.4V
	VOLTAGE TOLERANCE Note.3	±2.0%	±5.0%	±2.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±2.0%	±5.0%	±2.0%
	SETUP, RISE TIME	800ms, 20ms at full load		
	HOLD UP TIME (Typ.)	20ms at full load		
INPUT	VOLTAGE RANGE	90 ~ 264VAC	127 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 440Hz		
	EFFICIENCY (Typ.)	79%		81%
	AC CURRENT (Typ.)	1.5A/115VAC	0.9A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC		50A/230VAC
PROTECTION	LEAKAGE CURRENT	<1mA		
	OVERLOAD	90 ~ 125W output power Protection type : Hiccup mode, recovers automatically after fault condition is removed.		
	OVER VOLTAGE	CH1:13.8 ~ 16.2V		CH1:27.6 ~ 32.4V
ENVIRONMENT	PROTECTION	Protection type : Hiccup mode, recovers automatically after fault condition is removed.		
	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.04%/°C (0 ~ 50°C) on CH1 output		
SAFETY & EMC (Note 5)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved		
	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		
OTHERS	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, light industry level, criteria A, EAC TP TC 020		
	MTBF	288.1K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	127*76*29mm (L*W*H)		
NOTE	PACKING	0.24Kg; 63pcs/16Kg/1.28CUFT		
	1.	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		
	2.	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.		
	3.	Tolerance : includes set up tolerance, line regulation and load regulation.		
	4.	10% duty cycle maximum within every second. Average output power should not exceed the rated power, output voltage above 90% DC voltage.		
	5.	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 supplies." (as available on http://www.meanwell.com)		
	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).		
	※	Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx		

■ Mechanical Specification

Unit:mm



AC Input Connector (CN1) : Molex 5273-03 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	Molex 5195 or equivalent	Molex 5194 or equivalent
2	No Pin		
3	AC/N		

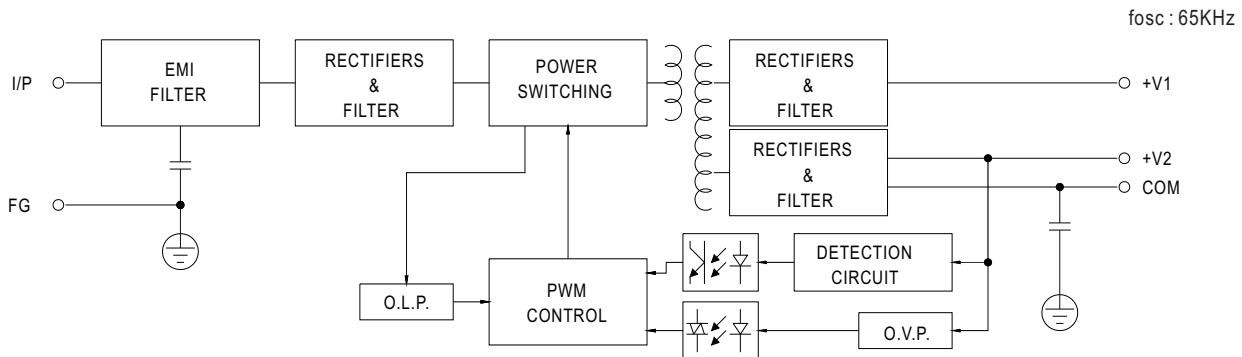
DC Output Connector (CN2) : Molex 5273-06 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	V1	Molex 5195 or equivalent	Molex 5194 or equivalent
3,4	GND		
5	V2		
6	NC		

\doteq : Grounding Required

 1.M1 is safety ground. For better EMC performance, Please secure an electrical connection between M1,M2 and chassis grounding.

■ Block Diagram

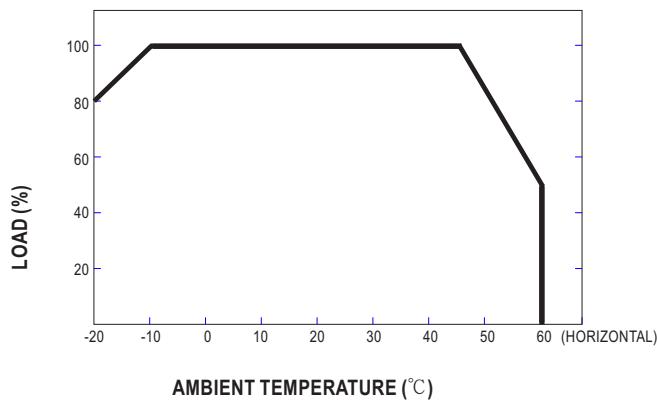




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■ Derating Curve



■ Output Derating VS Input Voltage

