



# 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



### ■ GTIN CODE

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

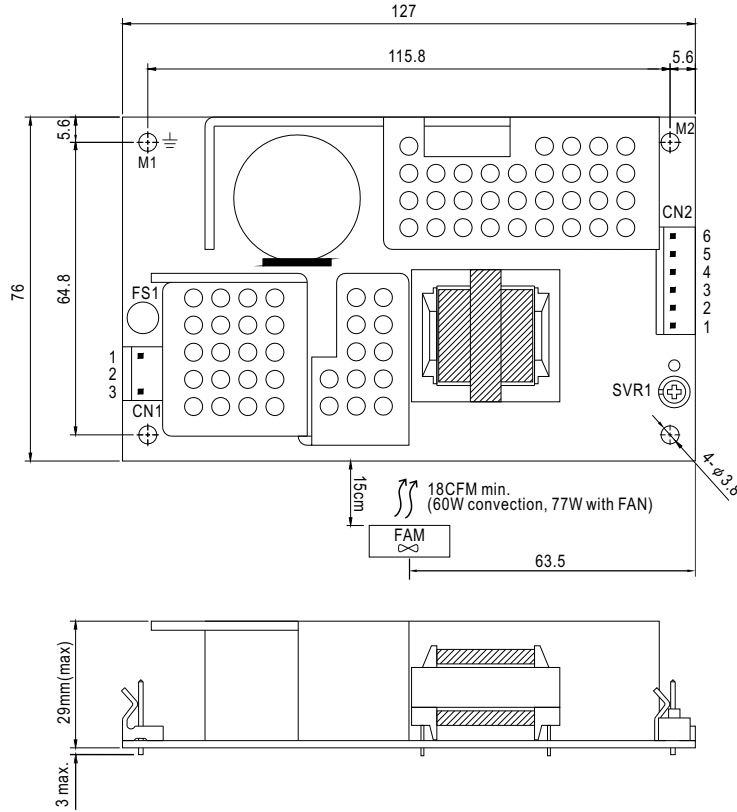


### SPECIFICATION

| MODEL                                |  | RPD-65C   |            | RPD-65D   |            |
|--------------------------------------|--|---|------------|---|------------|
| OUTPUT                               | OUTPUT NUMBER  | CH1   | CH2        | CH1   | CH2        |
|                                      | DC VOLTAGE   | 12V   | 5V         | 24V   | 5V         |
|                                      | RATED CURRENT  | 4.5A  | 1.2A       | 2.25A   | 1.2A       |
|                                      | CURRENT RANGE  | 0 ~ 5.8A  | 0 ~ 1.5A   | 0 ~ 2.9A  | 0 ~ 1.5A   |
|                                      | PEAK LOAD <small>Note.4</small>  | 7.5A  | Rated load | 3.75A   | Rated load |
|                                      | RATED POWER  | 60W   |            | 60W   |            |
|                                      | OUTPUT POWER (max.)  | Rated output power for convection; 77.1W with 18CFM min. forced air   |            |   |            |
|                                      | RIPPLE & NOISE (max.) <small>Note.2</small>  | 120mVp-p  | 50mVp-p    | 150mVp-p  | 50mVp-p    |
|                                      | VOLTAGE ADJ. RANGE   | CH1:11.4 ~ 12.8V  |            | CH1:22.8 ~ 26.4V  |            |
|                                      | VOLTAGE TOLERANCE <small>Note.3</small>  | ±2.0%   | ±5.0%      | ±2.0%   | ±5.0%      |
|                                      | LINE REGULATION  | ±1.0%   | ±1.0%      | ±1.0%   | ±1.0%      |
|                                      | LOAD REGULATION  | ±2.0%   | ±5.0%      | ±2.0%   | ±5.0%      |
| 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  |            |   |            |
| LEAKAGE CURRENT                      | <1mA   |   |            |   |            |
| PROTECTION                           | OVERLOAD   | 90 ~ 125W output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed. |            |   |            |
|                                      | OVER VOLTAGE   | CH1:13.8 ~ 16.2V  |            | CH1:27.6 ~ 32.4V<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed. |            |
| ENVIRONMENT                          | 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  |            |   |            |
| VIBRATION                            | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  |   |            |   |            |
| SAFETY & EMC <small>(Note 5)</small> | 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                                |            |   |            |
| EMC IMMUNITY                         | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020   |   |            |   |            |
| OTHERS                               | MTBF   | 2701.1K hrs min. Telcordia SR-332 (Bellcore) ; 523.4K hrs min. MIL-HDBK-217F (25°C)                               |            |   |            |
|                                      | DIMENSION  | 127*76*29mm (L*W*H)   |            |   |            |
|                                      | PACKING  | 0.24Kg; 63pcs/16Kg/1.28CUFT   |            |   |            |
| NOTE                                 | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. 10% duty cycle maximum within every second. Average output power should not exceed the rated power, output voltage above 90% DC voltage.</li> <li>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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</li> <li>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).</li> </ol> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p> |   |            |   |            |

■ 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       |                          |                          |

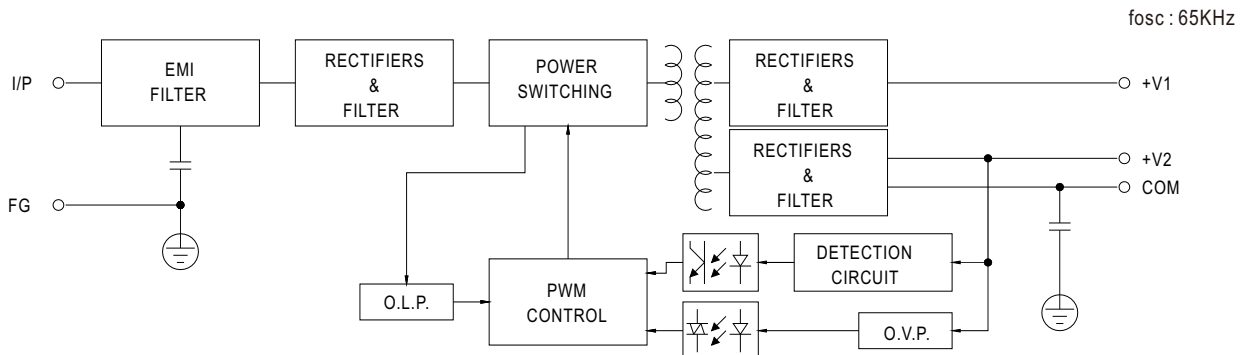
DC Output Connector (CN2) : Molex 5273-06 or equivalent

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

⊕ : Grounding Required

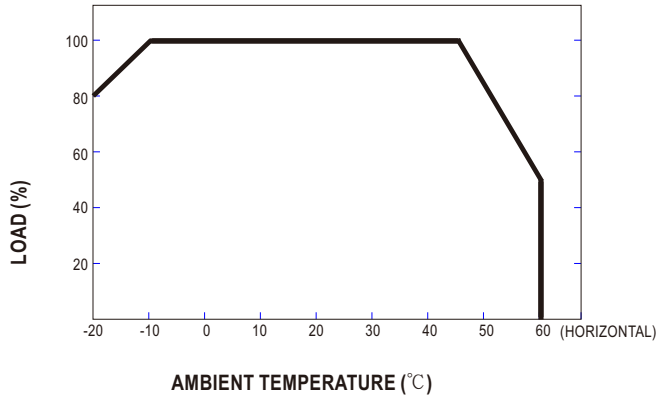
⚠ 1.M1 is safety ground. For better EMC performance, Please secure an electrical connection between M1,M2 and chassis grounding.

■ Block Diagram





■ Derating Curve



■ Output Derating VS Input Voltage

