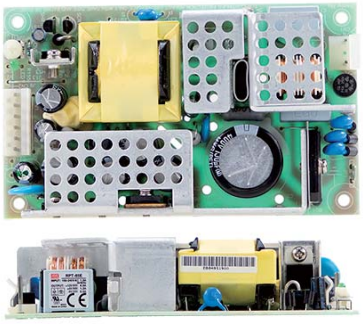
# 65W Triple Output Switching Power Supply

# RPT-65 series



## ■ Features :

- Universal AC input/Full range
- 12V or 24V high peak output current capability
- **Optional L-Bracket and cover (RPT-65x-C, x=E,F,G)**
- Low leakage current<1mA
- Protections: Short circuit / Overload / Over voltage
- 65W free air convection, 80W with 18CFM forced air
- 100% full load burn-in test
- Fixed switching frequency at 65KHz
- 2 years warranty

User's Manual

## ■ GTIN CODE

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

UL62368-1 BS EN/EN62368-1 TPTC004 IEC62368-1

## SPECIFICATION

| MODEL | | RPT-65E | | | RPT-65F | | | RPT-65G | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 |
| | DC VOLTAGE | 12V | 5V | -5V | 12V | 5V | -12V | 24V | 5V | 12V |
| | RATED CURRENT | 4.5A | 1.2A | 0.5A | 4.5A | 1.2A | 0.5A | 2.25A | 1.2A | 0.5A |
| | CURRENT RANGE | 0.18 ~ 5.8A | 0 ~ 1.5A | 0 ~ 0.7A | 0.18 ~ 5.8A | 0 ~ 1.5A | 0 ~ 0.7A | 0.09 ~ 2.9A | 0 ~ 1.5A | 0 ~ 0.7A |
| | PEAK LOAD Note.4 | 7.5A | Rated load | Rated load | 7.5A | Rated load | Rated load | 3.75A | Rated load | Rated load |
| | RATED POWER | 62.5W | | | 66W | | | 66W | | |
| | OUTPUT POWER (max.) | Rated output power for convection; 80W with 18CFM min. forced air | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 120mVp-p | 100mVp-p | 120mVp-p | 150mVp-p | 100mVp-p | 150mVp-p | 150mVp-p | 50mVp-p | 100mVp-p |
| | VOLTAGE ADJ. RANGE | CH1:11.4 ~ 12.8V | | | CH1:11.4 ~ 12.8V | | | CH1:22.8 ~ 26.4V | | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±5.0% | ±5.0% | ±2.0% | ±5.0% | ±5.0% | ±2.0% | ±5.0% | ±5.0% |
| | LINE REGULATION | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| | LOAD REGULATION | ±2.0% | ±5.0% | ±5.0% | ±2.0% | ±5.0% | ±5.0% | ±2.0% | ±5.0% | ±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.) | 77% | | | 77% | | | 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 | | | | | | | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed. | | | | | | | | |
| | OVER VOLTAGE | CH1:13.8 ~ 16.2V | | | CH1:13.8 ~ 16.2V | | | CH1:27.6 ~ 32.4V | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed. | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +60℃ (Refer to "Derating Curve") | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85℃, 10 ~ 95% RH | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.04%/℃ (0 ~ 50℃) on CH1 output | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | | | |
| SAFETY & EMC (Note 5) | 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℃/ 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 | 2520.5K hrs min. Telcordia SR-332 (Bellcore) ; 490.1K hrs min. MIL-HDBK-217F (25℃) | | | | | | | | |
| | DIMENSION | PCB:127*76*29mm (L*W*H) ; with optional CASE:130*85*37mm (L*W*H) | | | | | | | | |
| | PACKING | PCB:0.24Kg; 63pcs/16Kg/1.28CUFT ; with optional CASE:0.47Kg;32pcs/16Kg/0.73CUFT | | | | | | | | |

**NOTE**

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μF & 47 μF 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. 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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf )
6. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/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

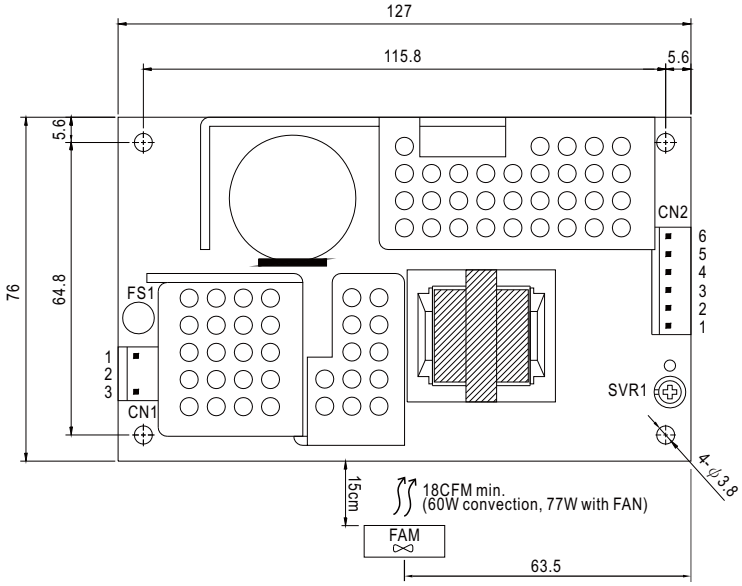


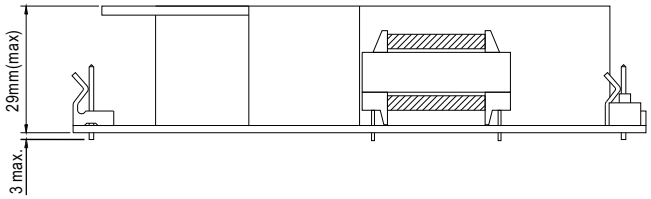
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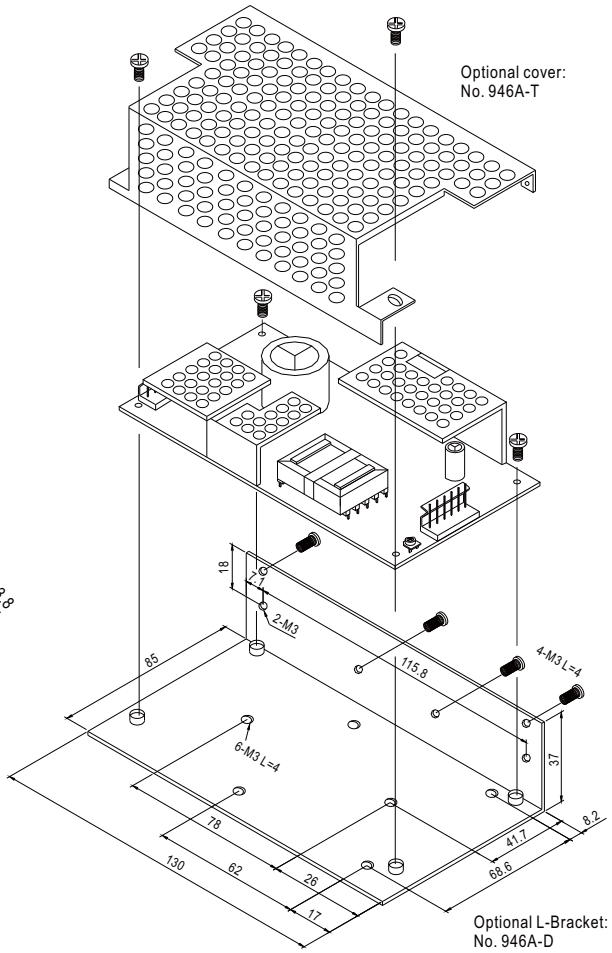
## ■ Mechanical Specification

Case No. 946A

(Unit: mm , tolerance ± 1mm)




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

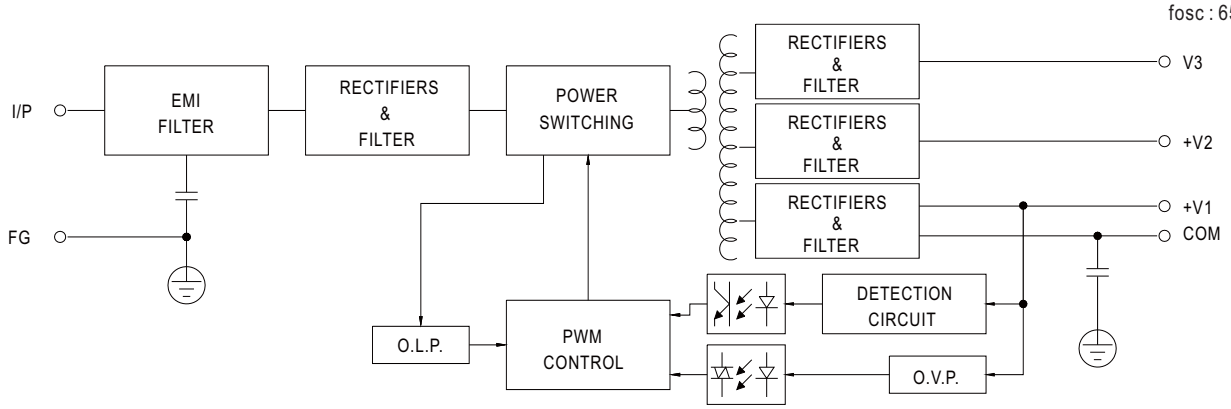
| Pin No. | Assignment | Mating Housing | Terminal |
|---|---|---|---|
| 1 | AC/L | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2 | No Pin | | |
| 3 | AC/N | | |

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 | V3 | | |

## ■ Block Diagram

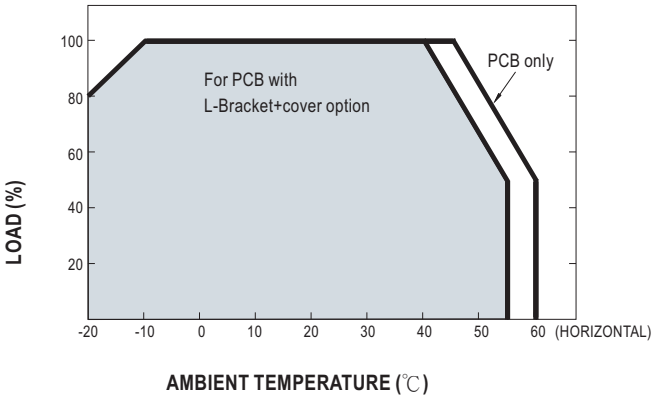
fosc : 65KHz



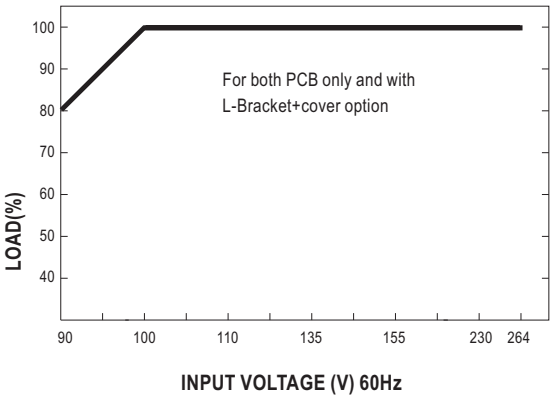



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## ■ Derating Curve




## ■ Output Derating VS Input Voltage






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