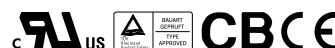


## ■ Features :

- Universal AC input/Full range
- 12V or 24V high peak output current capability
- **Optional L-Bracket and cover -x-C, x,,**
- 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

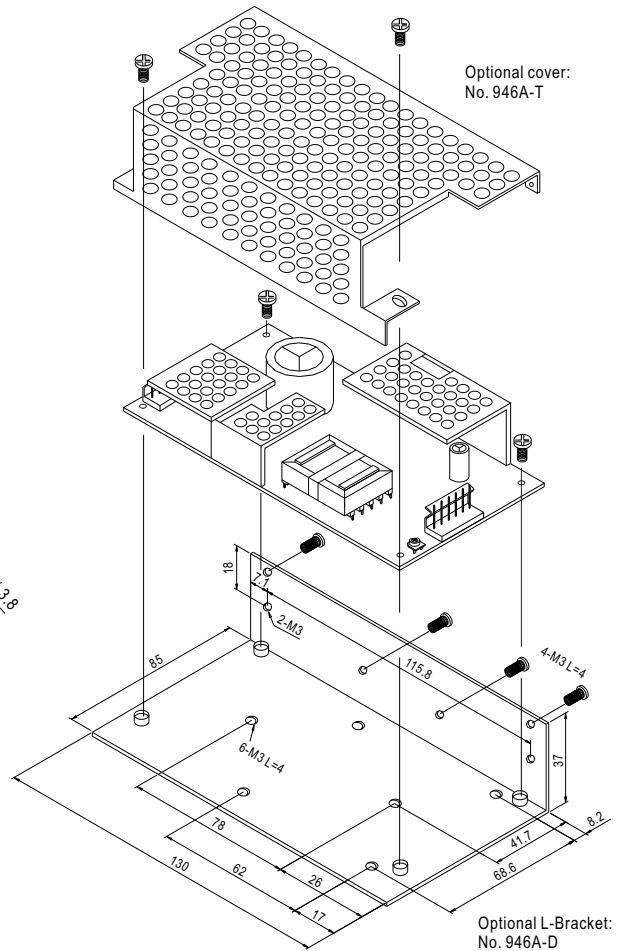
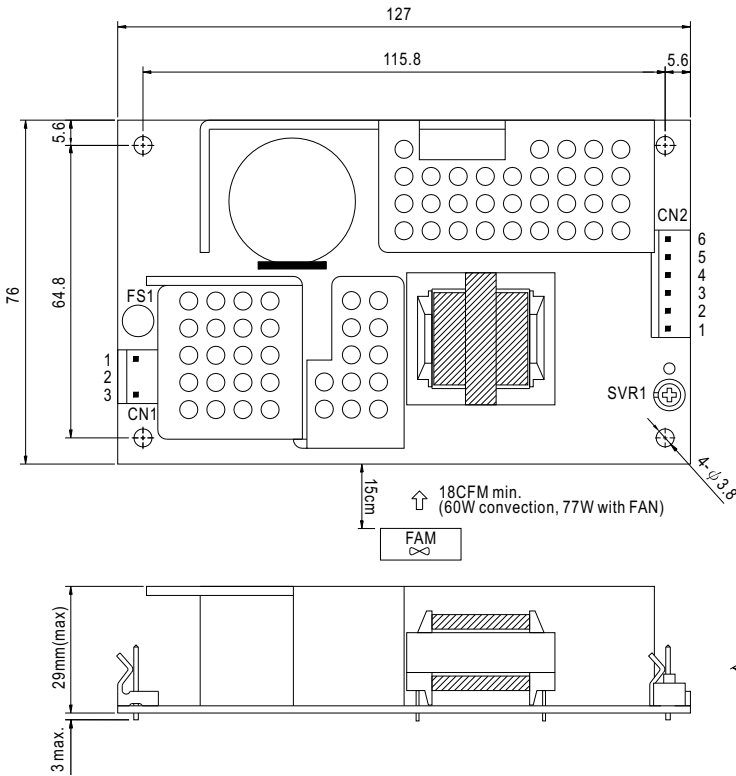


## SPECIFICATION

| 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 <div>Note.4</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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.) <div>Note.2</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 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 <div>Note.3</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ±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<br>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 output load 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<br><div>(Note 4)</div> | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UL60950-1, TUV EN60950-1 approved                                                                                 |            |            |                  |            |            |                  |            |            |
|                                     | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | I/P-O/P:3KVAC    I/P-FG:1.5KVAC    O/P-FG:0.5KVAC                                                                 |            |            |                  |            |            |                  |            |            |
|                                     | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH                                                         |            |            |                  |            |            |                  |            |            |
|                                     | EMI CONDUCTION & RADIATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Compliance to EN55022 (CISPR22) Class B                                                                           |            |            |                  |            |            |                  |            |            |
|                                     | HARMONIC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Compliance to EN61000-3-2,-3                                                                                      |            |            |                  |            |            |                  |            |            |
|                                     | EMS IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A                       |            |            |                  |            |            |                  |            |            |
| OTHERS                              | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 288.1K hrs min.    MIL-HDBK-217F (25℃)                                                                            |            |            |                  |            |            |                  |            |            |
|                                     | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PCB:127*76*28mm (L*W*H) ; with optional CASE:130*85*37mm (L*W*H)                                                  |            |            |                  |            |            |                  |            |            |
|                                     | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PCB:0.24Kg; 63pcs/16Kg/1.35CUFT ; with optional CASE:0.47Kg;32pcs/16Kg/0.64CUFT                                   |            |            |                  |            |            |                  |            |            |
| NOTE                                | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>4. <b>10% duty cycle maximum within every second. Average output power should not exceed the rated power, output voltage above 90% DC voltage.</b><br>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. |                                                                                                                   |            |            |                  |            |            |                  |            |            |

## Mechanical Specification

Case No. 946A Unit:mm



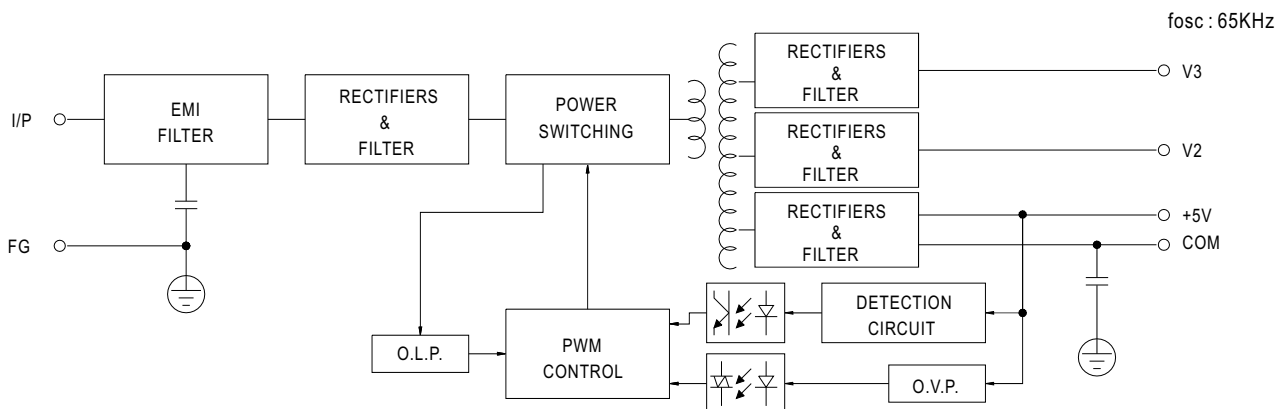
AC Input Connector (CN1) : Molex 5273-03 or equivalent

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

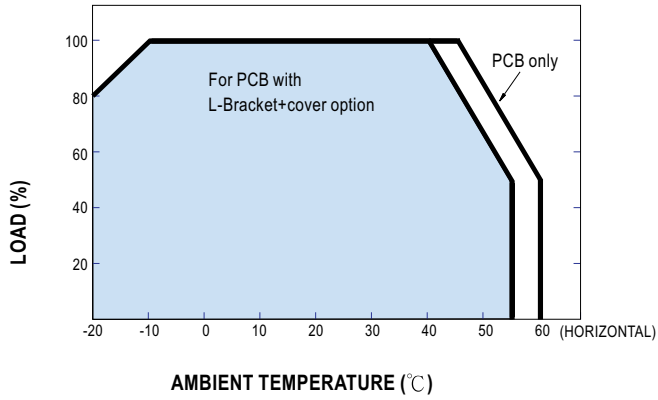
DC Output Connector (CN2) : Molex 5273-06 or equivalent

| Pin No. | Assignment | Mating Housing           | Terminal                 |
|---------|------------|--------------------------|--------------------------|
| 1,2     | V1         | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 3,4     | GND        |                          |                          |
| 5       | V2         |                          |                          |
| 6       | V3         |                          |                          |

## Block Diagram



■ Derating Curve



■ Output Derating VS Input Voltage

