



### ■ Features

- AC input 180~264VAC
- Withstand 300VAC surge input for 5 seconds
- Design against rain splash
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- Cooling by free air convection
- LED indicator for power on
- Low cost, high reliability
- 100% full load burn-in test
- 3 years warranty

### ■ Applications

- LED strip lighting
- LED channel letters
- LED display

### ■ GTIN CODE

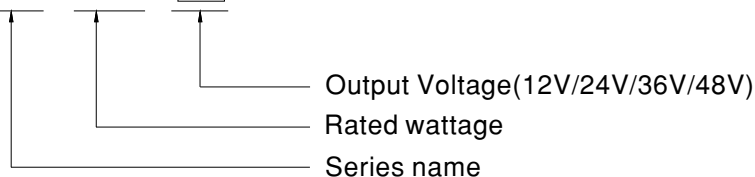
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

### ■ Description

ERP-350 series is a 350W single output enclosed type AC/DC power supply . It adopts an aluminum case and the interior is semi-potted, protecting the internal electronic components from rain splash and dust. With the complete protection functions, ERP-350 is suitable for the applications such as outdoor LED channel letters, billboard, commercial display, etc.

### ■ Model Encoding

ERP - 350 - 12



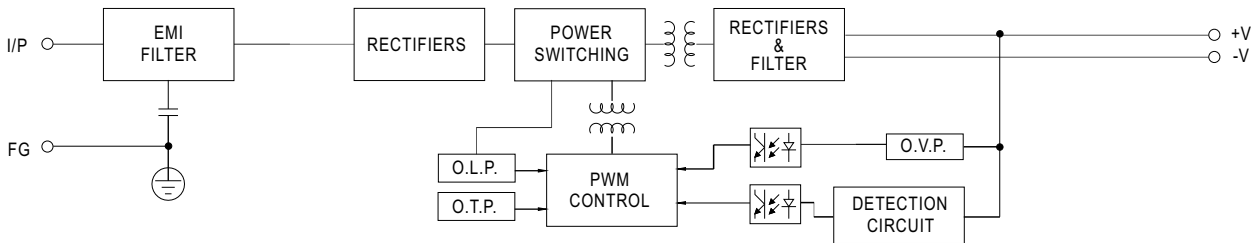


## SPECIFICATION

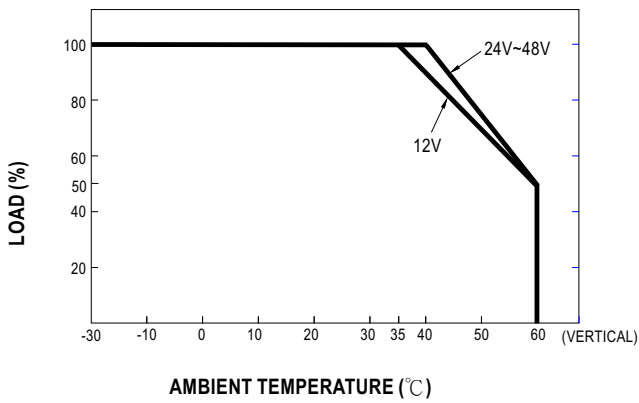
| MODEL               |   | ERP-350-12  | ERP-350-24   | ERP-350-36   | ERP-350-48   |
|---------------------|---|---|--------------|--------------|--------------|
| OUTPUT              | DC VOLTAGE  | 12V   | 24V          | 36V          | 48V          |
|                     | RATED CURRENT   | 26.7A   | 14.6A        | 9.7A         | 7.3A         |
|                     | CURRENT RANGE   | 0 ~ 26.7A   | 0 ~ 14.6A    | 0 ~ 9.7A     | 0 ~ 7.3A     |
|                     | RATED POWER   | 320.4W  | 350.4W       | 349.2W       | 350.4W       |
|                     | RIPPLE & NOISE (max.) Note.2  | 150mVp-p  | 150mVp-p     | 240mVp-p     | 240mVp-p     |
|                     | VOLTAGE ADJ. RANGE  | 10.8 ~ 13.2V  | 21.6 ~ 26.4V | 32.4 ~ 39.6V | 43.2 ~ 52.8V |
|                     | VOLTAGE TOLERANCE Note.3  | ±1.0%   | ±1.0%        | ±1.0%        | ±1.0%        |
|                     | LINE REGULATION   | ±0.5%   | ±0.5%        | ±0.5%        | ±0.5%        |
|                     | LOAD REGULATION   | ±0.5%   | ±0.5%        | ±0.5%        | ±0.5%        |
|                     | SETUP, RISE TIME  | 1500ms, 200ms/230VAC  |              |              |              |
| HOLD UP TIME (Typ.) | 20ms/230VAC   |   |              |              |              |
| INPUT               | VOLTAGE RANGE   | 180 ~ 264VAC 254 ~ 370VDC   |              |              |              |
|                     | FREQUENCY RANGE   | 47 ~ 63Hz   |              |              |              |
|                     | EFFICIENCY (Typ.)   | 87%   | 89%          | 90%          | 90%          |
|                     | AC CURRENT (Typ.)   | 4A/230VAC   |              |              |              |
|                     | INRUSH CURRENT (Typ.)   | 90A/230VAC  |              |              |              |
|                     | LEAKAGE CURRENT   | <1mA / 240VAC   |              |              |              |
| PROTECTION          | OVER LOAD   | 110 ~ 140% rated output power 130 ~ 180% rated output power 120 ~ 160% rated output power<br>12-36V Hiccup mode, recovers automatically after fault condition is removed<br>48V Shut down and latch off o/p voltage, re-power on to recover |              |              |              |
|                     | OVER VOLTAGE  | 13.8 ~ 16.2V  | 27.6 ~ 32.4V | 41.4 ~ 46.8V | 55.2 ~ 64.8V |
|                     |   | 12-36V Hiccup mode, recovers automatically after fault condition is removed<br>48V Shut down and latch off o/p voltage, re-power on to recover  |              |              |              |
|                     | OVER TEMPERATURE  | 12-36V Shut down O/P voltage, recovers automatically after temperature goes down<br>48V Shut down and latch off o/p voltage, re-power on to recover   |              |              |              |
| ENVIRONMENT         | WORKING TEMP.   | -30 ~ +60°C (Refer to output load derating curve)   |              |              |              |
|                     | WORKING HUMIDITY  | 20 ~ 90% RH non-condensing  |              |              |              |
|                     | STORAGE TEMP., HUMIDITY   | -30 ~ +85°C, 10 ~ 95% RH  |              |              |              |
|                     | TEMP. COEFFICIENT   | ±0.05%/°C (0 ~ 50°C)  |              |              |              |
|                     | VIBRATION   | 10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes  |              |              |              |
| SAFETY & EMC        | SAFETY STANDARDS  | UL 62368-1, IEC 62368-1, GB 4943.1, 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  | Refer to EN55022 (CISPR22) class A, EAC TP TC 020   |              |              |              |
|                     | EMC IMMUNITY  | Refer to EN61000-4-5; light industry level, EAC TP TC 020   |              |              |              |
| OTHERS              | MTBF  | 2396.7K hrs min. Telcordia SR-332 (Bellcore) 321Khrs min. MIL-HDBK-217F (25°C)  |              |              |              |
|                     | DIMENSION   | 220.4*130*48mm (L*W*H)  |              |              |              |
|                     | PACKING   | 0.9Kg; 9 pcs/11Kg/0.63CUFT  |              |              |              |
| NOTE                | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>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.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. 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).</p> <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> |   |              |              |              |

■ Block Diagram

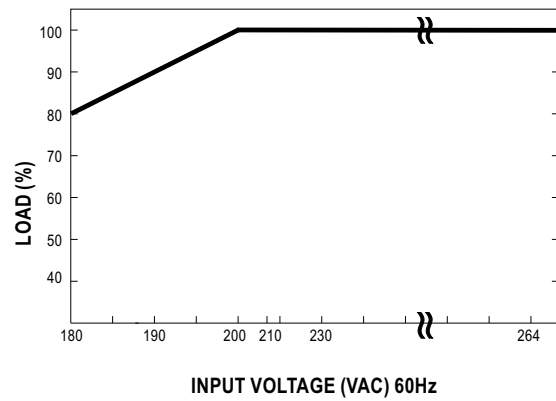
fosc : 90KHz



■ Derating Curve

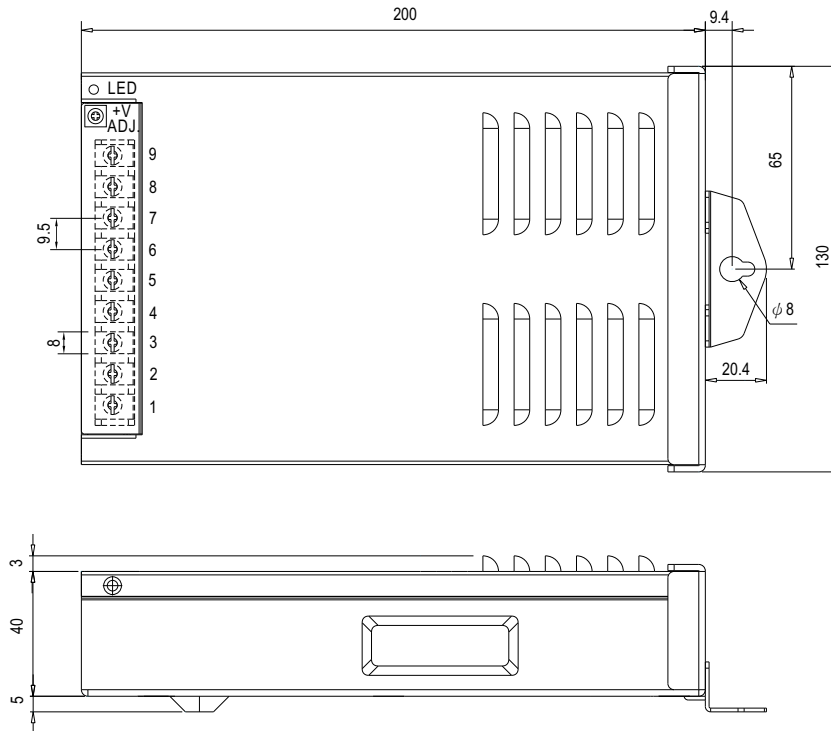


■ Static Characteristics



■ Mechanical Specification

Case No.230 Unit:mm

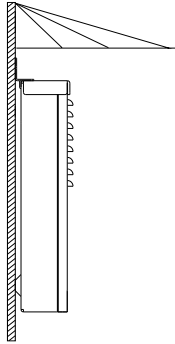


Terminal Pin No. assignment :

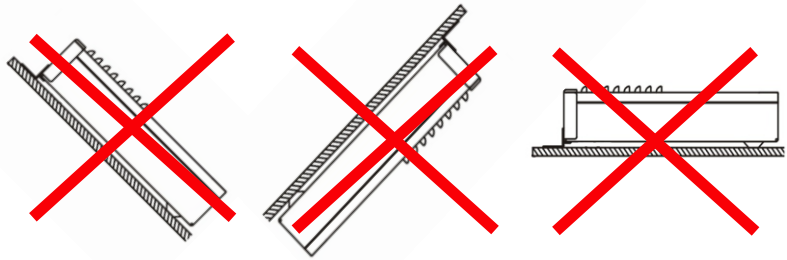
| Pin No. | Assignment | Pin No. | Assignment   |
|---------|------------|---------|--------------|
| 1       | AC/L       | 4~6     | DC OUTPUT -V |
| 2       | AC/N       | 7~9     | DC OUTPUT +V |
| 3       | FG ≐       |         |              |

■ Installation

- 1. ERP-350 is designed for outdoor application and should be installed in the place with shelter.
- 2. ERP-350 should be installed in an upright position, leaning forward, backward or lay flat are not allowed.



Correct installation method



Faulty installation methods

- 3. For heat dissipation, at least 10cm installation distance around the PSU should be kept, shown as below:

