



Features

- Input range 180~264VAC
- Class II power unit, no FG
- Built-in active PFC function
- High efficiency up to 94%
- No load power consumption <0.15W
- Energy efficiency Level VI
- Comply with EU ErP and CoC Version 5
- Compliance to IEC/BS EN/EN 61558-1,-2-16 and IEC/BS EN/EN 60335-1 (except for OWA-200E-48,54) for household appliance
- Fanless design, cooling by free air convection
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 5 years warranty
- Various DC plug quick adapter accessory available (Plug kit sold sperately, please refer to : https://www.meanwell.com/upload/pdf/DC_plug.pdf)

Applications

- Industrial field PC adaptor
- POS or KIOSK system
- Portable Battery charger
- Electric Lawn mower charger
- General electronic products in dusty or humid environment
- Household Device

GTIN CODE

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

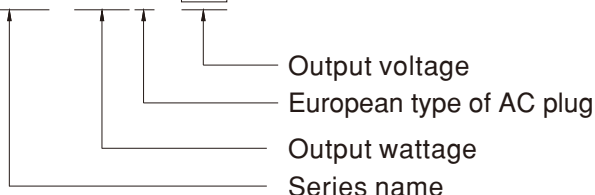
Description

OWA-200E is a 200W AC/DC, class II (no FG) external power supply series pinpointing the moistureproof feature. The fully-potted silicone inside the plastic enclosure enhances the heat dissipation; it also benefits that the power body of OWA-200E achieves IP67 level so that this series specializes the application in which the damp, humidity or dust resistance is needed for the external power supply. OWA-200E follows the latest energy efficiency demand with the no load power consumption less than 0.15W. It is certified with BS EN/EN61558-2-16; moreover, the compliance to BS EN/EN60335-1 for selected models can greatly simplify the system design such as household or charging application.

OWA-200E adopts the input range from 180VAC to 264VAC and incorporates a built-in PFC function. With the working efficiency up to 94%, OWA-200E is cooled by free air convection; the working temperature ranges from -40°C to +70°C .

Model Encoding

OWA - 200E - 12

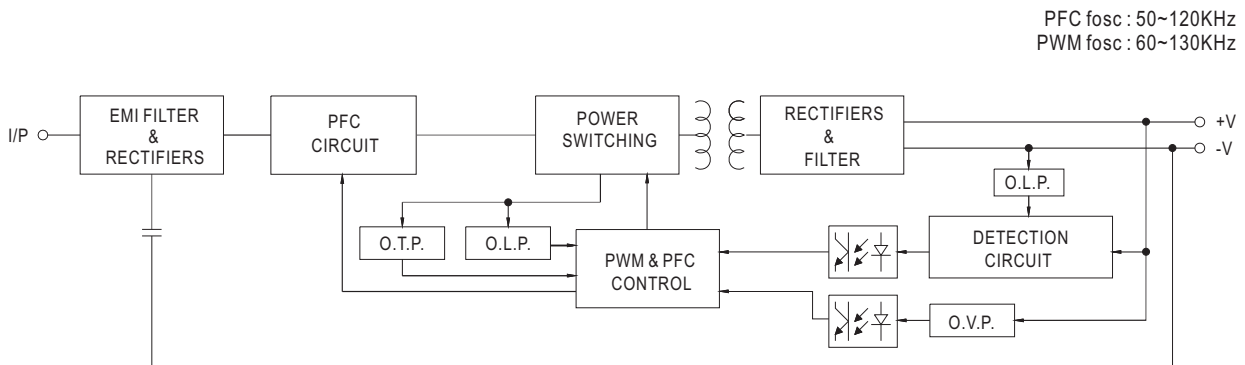




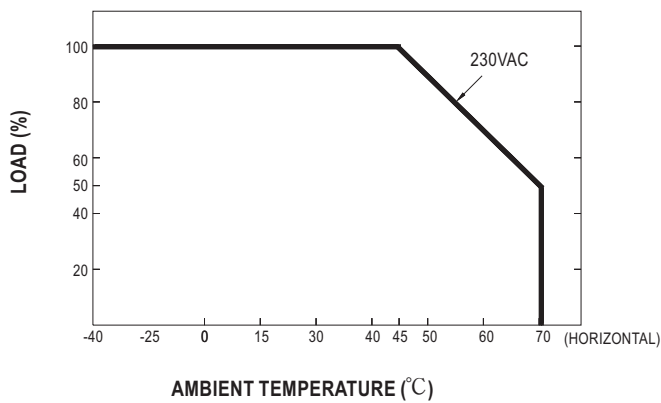
SPECIFICATION

| MODEL | | OWA-200E-12 | OWA-200E-20 | OWA-200E-24 | OWA-200E-36 | OWA-200E-42 | OWA-200E-48 | OWA-200E-54 |
|--------------|---|--|-------------|-------------|-------------|-------------|-------------|-------------|
| OUTPUT | DC VOLTAGE | 12V | 20V | 24V | 36V | 42V | 48V | 54V |
| | RATED CURRENT | 15A | 10A | 8.3A | 5.55A | 4.75A | 4.17A | 3.71A |
| | RATED POWER | 180W | 200W | 199W | 199W | 199W | 200W | 200W |
| | RIPPLE & NOISE (max.) Note.2 | 150mVp-p | 150mVp-p | 150mVp-p | 200mVp-p | 250mVp-p | 250mVp-p | 350mVp-p |
| | VOLTAGE TOLERANCE Note.3 | ±5.0% | ±4.0% | ±4.0% | ±3.0% | ±3.0% | ±3.0% | ±3.0% |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | LOAD REGULATION | ±5.0% | ±4.0% | ±4.0% | ±3.0% | ±3.0% | ±3.0% | ±3.0% |
| | SETUP, RISE TIME Note.4 | 500ms, 80ms 230VAC | | | | | | |
| | HOLD UP TIME (Typ.) | 10ms at full load 230VAC | | | | | | |
| INPUT | VOLTAGE RANGE | 180 ~ 264VAC 254 ~ 370VDC | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | |
| | POWER FACTOR (Typ.) | PF>0.96/230VAC at full load | | | | | | |
| | EFFICIENCY(Typ.) | 91% | 92.5% | 93% | 94% | 94% | 94% | 94% |
| | AC CURRENT (Typ.) | 1.1A / 230VAC | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 65A(twidth=550µs measured at 50% Ipeak) at 230VAC | | | | | | |
| | LEAKAGE CURRENT | <0.25mA / 240VAC | | | | | | |
| | NO LOAD CONSUMPTION | <0.15W | | | | | | |
| PROTECTION | OVER CURRENT | 105% ~ 150% | | | | | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | |
| | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | | |
| | OVER VOLTAGE | 13 ~ 18V | 22 ~ 27V | 27 ~ 34V | 41 ~ 49V | 46 ~ 57V | 52 ~ 65V | 59 ~ 70V |
| | | Protection type : Shut down o/p voltage, re-power on to recover | | | | | | |
| | OVER TEMPERATURE | Shut down o/p voltage, re-power on to recover | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -40 ~ +70°C (Refer to "Derating Curve") | | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | |
| SAFETY & EMC | SAFETY STANDARDS | DEKRA BS EN/EN61558-1,-2-16; DEKRA BS EN/EN60335-1(except for OWA-200E-48,54); EAC TP TC 004, IP67 (for power body) approved | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4.2KVAC | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | |
| | EMC EMISSION | Compliance to BS EN/EN55032(CISPR32)ClassB, BS EN/EN55035, BS EN/EN55014-1, 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/EN55014-2,BS EN/EN55024, light industry level (surge L-N: 2KV), EAC TP TC 020 | | | | | | |
| OTHERS | MTBF | 2677.8K hrs min. Telcordia SR-332 (Bellcore) 267.6K hrs min. MIL-HDBK-217F (25°C) | | | | | | |
| | DIMENSION | 195*68*39.5mm | | | | | | |
| | PACKING | 1.32Kg; 9pcs/ 12.88Kg/ 0.79CUFT | | | | | | |
| 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 & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.</p> <p>5. For battery charging purpose had better operation with a BMS controller.</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p> | | | | | | | |

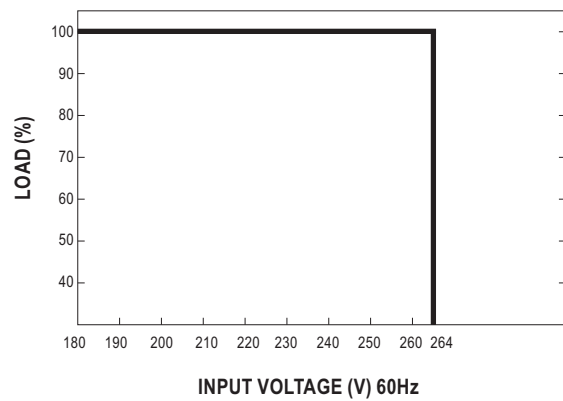
Block Diagram



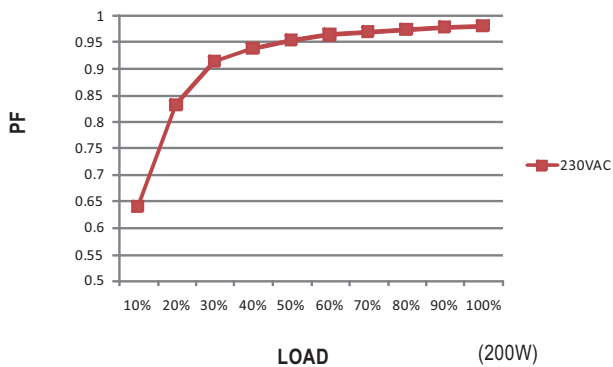
Derating Curve



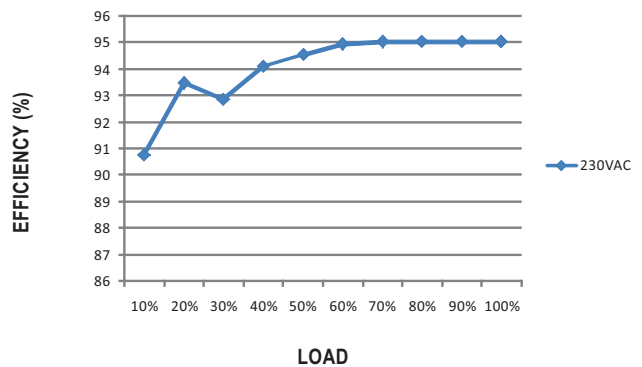
Static Characteristics



Power Factor Characteristic



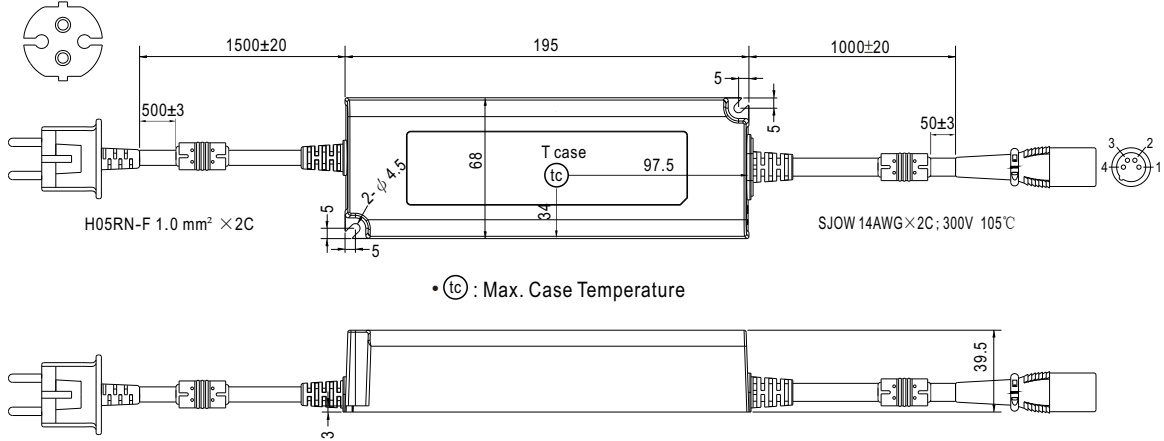
EFFICIENCY vs LOAD (48V Model)



Mechanical Specification

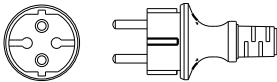
Case No. PWM-200E

Unit:mm



Input Plug Type

All standard models : CEE 7/7




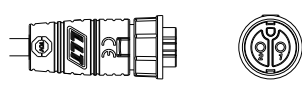

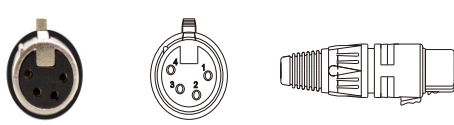
DC output plug

☉ Standard plug:

| XLR4P, NEUTRIK NC4MX equivalent | Type No. | Pin Assignment | | Available for all model (Current rating: 15A max.) |
|---------------------------------|----------|----------------|--------|---|
| | | PIN No. | Output | |
| | XLR4P | 1 | +Vo | |
| | | 2 | +Vo | |
| | | 3 | -Vo | |
| | | 4 | -Vo | |

☉ Optional DC plug:

| Tuning Fork Style | Type No. | A | B | C | Adaptation model |
|---|----------|----------------|--------|---|--|
| | | OD | ID | L | |
| | P1J | 5.5 | 2.1 | 11.0 | Available for 36V/48V/54V (Current rating: 7.5A max.) |
| | P1M | 5.5 | 2.5 | 11.0 | |
| MOLEX 39-01-2060 (4.2mm) equivalent | Type No. | Pin Assignment | | Available for all model (Current rating: 15A max.) | |
| | | PIN No. | Output | | |
| <p>FG not connected to output connector</p> | C6P | 1 | +Vo | | |
| | | 2 | +Vo | | |
| | | 3 | +Vo | | |
| | | 4 | -Vo | | |
| | | 5 | -Vo | | |
| | | 6 | -Vo | | |

| KYCON KPPX-4P equivalent | Type No. | Pin Assignment | | Available for all model (Current rating: 15A max.) |
|---|----------|----------------|--------|--|
| | | PIN No. | Output | |
|  | R7B | 1 | +Vo | |
| | | 2 | -Vo | |
| | | 3 | -Vo | |
| | | 4 | +Vo | |
| LLT-M19-20002F307 equivalent | Type No. | Pin Assignment | | Available for all model (Current rating: 15A max.) |
|  | M19 | PIN No. | Output | |
| | | 1 | +Vo | |
| | | 2 | -Vo | |
| DW-M15-02F equivalent | Type No. | Pin Assignment | | Available for 20V/24V/36V/48V/54V (Current rating: 10A max.) |
|  | M15 | PIN No. | Output | |
| | | 1 | +Vo | |
| | | 2 | -Vo | |
| NEUTRIK XLR NC4FX equivalent | Type No. | Pin Assignment | | Available for all model (Current rating: 15A max.) |
|  | MIC4 | PIN No. | Output | |
| | | 1 | +Vo | |
| | | 2 | +Vo | |
| | | 3 | -Vo | |
| | | 4 | -Vo | |

※ For details, please contact MEAN WELL.

■ **Recommend Mounting Direction**



■ **Installation Manual**

Please refer to : <http://www.meanwell.com/manual.html>