



Наличие и актуальные цены на

OWA-90E-24

<https://www.mean-well.ru/store/OWA-90E-24/>



IP67


EN60335-1
EN61558-1,-2-16


■ Features

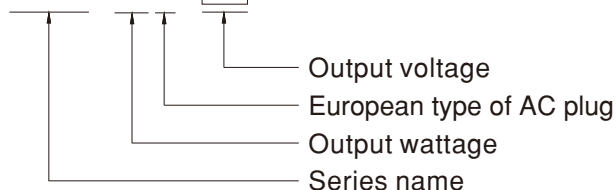
- Universal AC input / Full range
- Built-in active PFC function
- High efficiency up to 91%
- No load power consumption<0.15W
- Energy efficiency Level VI
- Comply with EU ErP
- Meet CoC Version 5(Except for 12V)
- Protections: Short circuit / Over current /
Over voltage / Over temperature
- Class II power unit, no FG
- Fanless design, cooling by free air convection
- 5 years warranty

■ Description

OWA-90E is a 90W AC/DC, class II (without earth pin) 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 OWA-90E is approved for 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-90E follows the latest energy efficiency demand, and is compliant with EU ErP and meets Code of Conduct(CoC) Version 5(Except for 12V); the no load power consumption is less than 0.15W. It is certified with EN 61558-2-16; moreover, the compliance to EN 60335-1 for selected models can greatly simplify the system design such as household appliances.

OWA-90E adopts the universal input range from 90VAC to 264VAC, and incorporates a built-in PFC function. With the working efficiency up to 91%, OWA-90E is cooled by free air convection; the working temperature ranges from -40°C to +70°C.

■ Model Encoding

OWA - 90E -12


■ Applications

- Robotic lawn mower
- Household appliance
- Battery charging
- General electronic products in dusty or humid environment

■ GTIN CODE

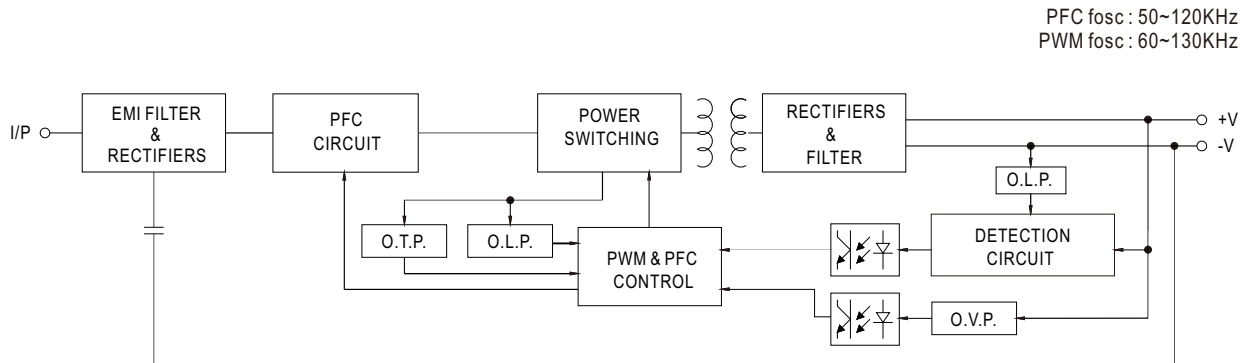
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



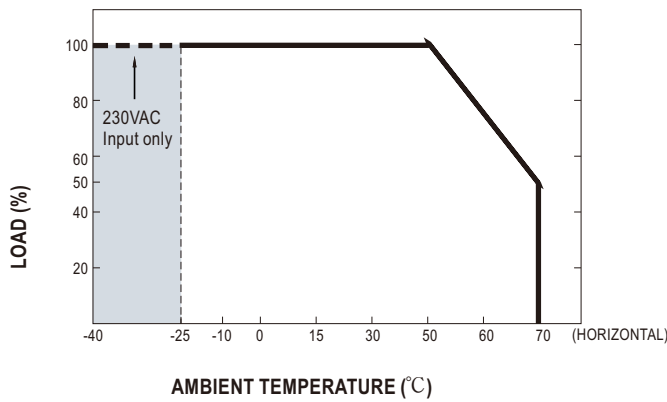
SPECIFICATION

MODEL		OWA-90E-12	OWA-90E-15	OWA-90E-20	OWA-90E-24	OWA-90E-30	OWA-90E-36	OWA-90E-42	OWA-90E-48	OWA-90E-54
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
	RATED CURRENT	7.5A	6A	4.5A	3.75A	3A	2.5A	2.15A	1.88A	1.67A
	RATED POWER	90W	90W	90W	90W	90W	90W	90.3W	90.24W	90.18W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	250mVp-p	250mVp-p	350mVp-p
	VOLTAGE TOLERANCE Note.3	±4.0%	±4.0%	±4.0%	±3.0%	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME Note.4	500ms, 80ms at 95% load 115VAC / 230VAC								
	HOLD UP TIME (Typ.)	16ms at full load 115VAC / 230VAC								
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.96/230VAC at full load								
	EFFICIENCY (Typ.)	89%	90%	90%	90%	90%	91%	91%	91%	91%
	AC CURRENT (Typ.)	0.95A / 115VAC 0.5A / 230VAC								
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=550μs measured at 50% Ipeak) at 230VAC								
	LEAKAGE CURRENT	<0.25mA / 240VAC								
PROTECTION	OVERLOAD	105 ~ 115% Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	15 ~ 17V	17.5 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 40V	41 ~ 46V	46 ~ 54V	54 ~ 60V	59 ~ 66V
		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	EN61558-1,-2-16 listed; EN60335-1 listed(except for OWA-90E-42,48,54); EAC TP TC 004,IP67 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH								
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN55014-1,EN61000-3-2,-3;EAC TP TC 020								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55035, EN55014-2, light industry level (surge L- N : 2KV), EAC TP TC 020								
OTHERS	MTBF	3044.3K hrs min. Telcordia SR-332 (Bellcore) 292.9K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	171*63*37.5mm								
	PACKING	0.92Kg; 16pcs/15.7Kg/1.01CUFT								
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 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. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									

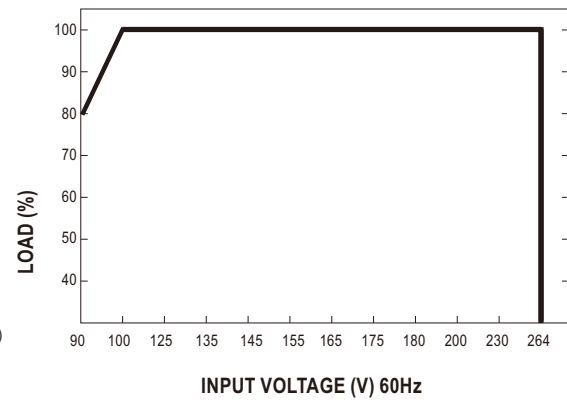
■ Block Diagram



■ Derating Curve

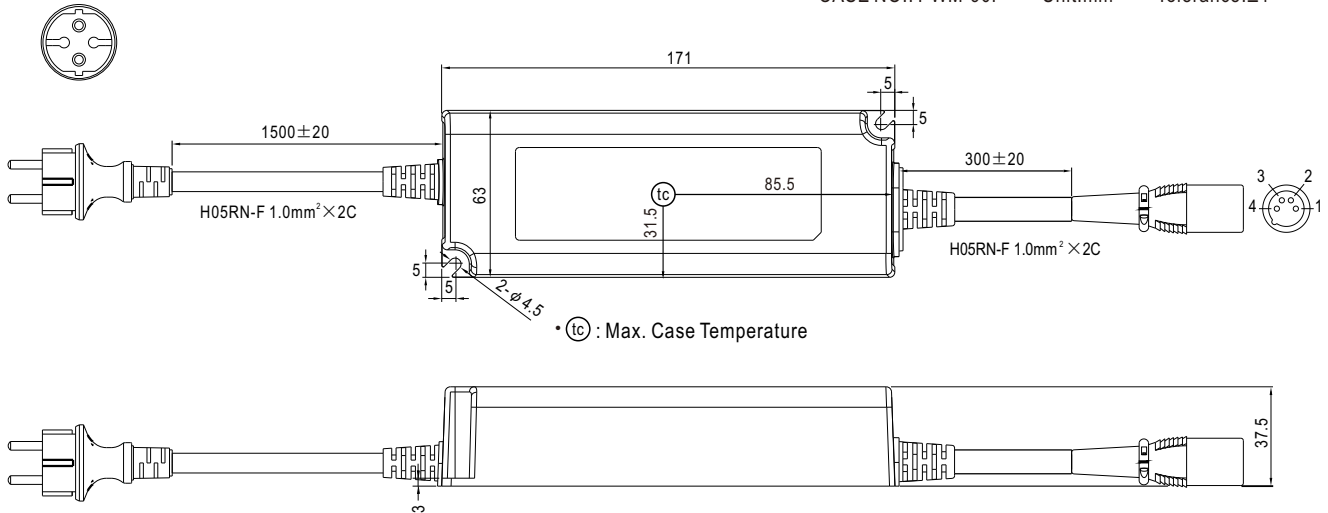


■ Static Characteristics



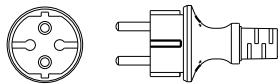
Mechanical Specification

CASE NO.: PWM-90P Unit:mm Tolerance:±1

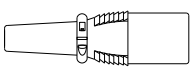
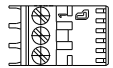
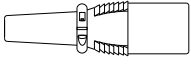
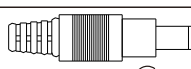


Input Plug Type

All standard models : CEE 7/7



Output Plug Assignment

Model Category	Plug Description	Plug Picture	PIN NO.	OUTPUT
For standard model	XLR 4P, NEUTRIK NC4MX, or equivalent		1,2	+V
			3,4	-V
For optional model	Lumberg 3611 03, or equivalent		1	+V
			2	float
			3	-V
For optional model	XLR 3P, NEUTRIK NC3MX, or equivalent		1	+V
			2,3	-V
For optional model	CHOGORI 22002411-01 or equivalent		1	+V
			2	-V
For optional model	Unicable UT-D170F4-2P or equivalent		1	+V
			2	-V
For optional model	Unicable UT-D224-2P or equivalent		1	+V
			2	-V
For optional model	2.1φ x 5.5φ x 11 mm, center +, tuning fork type	 Outside ⊖ ⊕ Inside	CENTER	+V

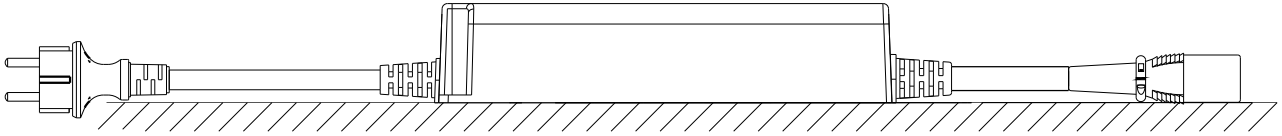
※ For details, please contact MEAN WELL.



90W Single Output Moistureproof Adaptor

OWA-90E series

■ Recommend Mounting Direction



■ Installation Manual

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