



■ Features

- Universal AC input / Full range
- 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
- Fully isolated plastic case with IP67
- Fanless design, cooling by free air convection
- Protections: Short circuit / Over current / Over voltage / Over temperature
- UL LISTED, suitable for dry and damp locations
- 5 years warranty
- **Various DC plug quick adapter accessory available**
(Plug kit sold separately, please refer to : https://www.meanwell.com/upload/pdf/DC_plug.pdf)

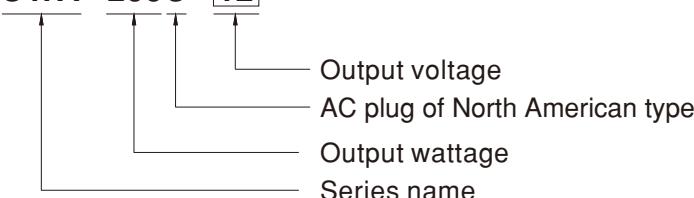
■ Description

OWA-200U is one 200W single-output external power supply series. Pairing the North American type of AC plug and the prevailing DC connectors, OWA-200U, working like an adaptor, simplifies the connection with any electric device which needs waterproof function. The entire series is certified with the "UL LISTED" for dry and damp locations.

As a class II (no FG) design, the enclosure of OWA-200U is a 94V-0 flame retardant plastic case. The interior is fully potted with silicone that enhances the heat dissipation. With the working efficiency up to 94%, OWA-200U is cooled by free air convection; the working temperature ranges from -40°C to +70°C.

■ Model Encoding

OWA - 200U - 12



■ 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

SPECIFICATION

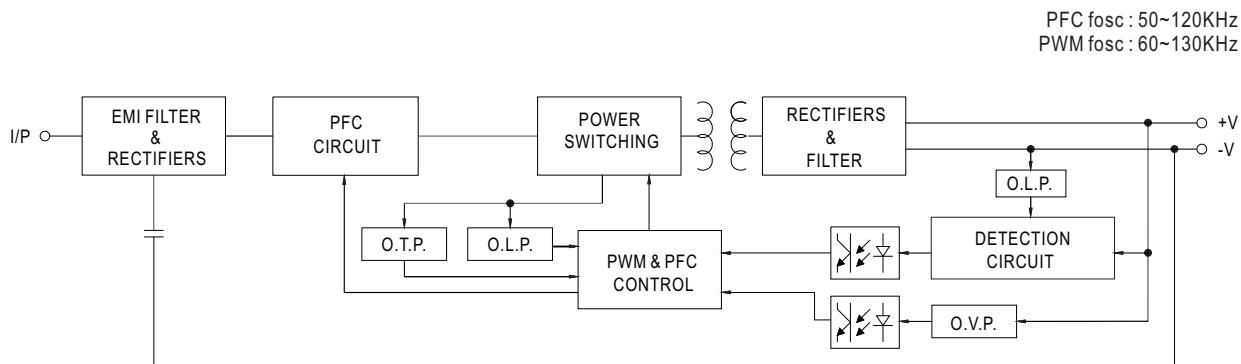
MODEL	OWA-200U-12	OWA-200U-20	OWA-200U-24	OWA-200U-36	OWA-200U-42	OWA-200U-48	OWA-200U-54
OUTPUT	DC VOLTAGE	12V	20V	24V	36V	42V	48V
	RATED CURRENT	15A	10A	8.3A	5.55A	4.75A	4.17A
	RATED POWER	180W	200W	199W	199W	200W	200W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	350mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	±4.0%	±4.0%	±3.0%	±3.0%	±3.0%
	LINE REGULATION	±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%
	SETUP, RISE TIME Note.4	500ms, 80ms	230VAC / 115VAC				
INPUT	HOLD UP TIME (Typ.)	10ms at full load	230VAC / 115VAC				
	VOLTAGE RANGE	100 ~ 264VAC	142 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.96/230VAC at full load					
	EFFICIENCY	115VAC	88.5%	90%	90.5%	91.5%	91.5%
	(Typ.)	230VAC	91%	92.5%	93%	94%	94%
	AC CURRENT (Typ.)	2.2A / 115VAC	1.1A / 230VAC				
	INRUSH CURRENT (Typ.)	COLD START 90A(twidth=300μs measured at 50% Ipeak) at 115VAC COLD START 180A(twidth=450μs measured at 50% Ipeak) at 230VAC					
PROTECTION	LEAKAGE CURRENT	<0.125mA / 120VAC	<0.25mA / 240VAC				
	NO LOAD CONSUMPTION	<0.15W					
	OVER CURRENT	105% ~ 150%					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
ENVIRONMENT	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
		Protection type : Shut down o/p voltage, re-power on to recover					
SAFETY & EMC	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover					
	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)					
OTHERS	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	SAFETY STANDARDS	UL62368-1; IP67(for power body) approved; Design refer with UL1012					
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC					
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION	Compliance to FCC Part15					
	MTBF	851.3 K hrs min. 268.5 MIL-HDBK-217F (25°C)					
NOTE	DIMENSION	195*68*39.5mm					
	PACKING	1.32Kg; 9 pcs/ 11.74 Kg/ 0.79 CUFT					
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.						
	5. For battery charging purpose had better operation with a BMS controller.						
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							



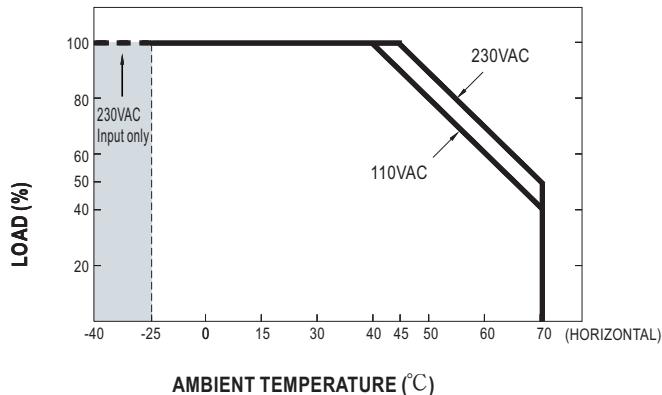
200W Single Output Moistureproof Adaptor

OWA-200U series

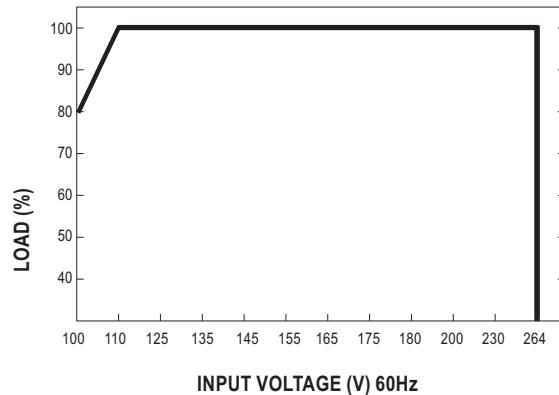
■ Block Diagram



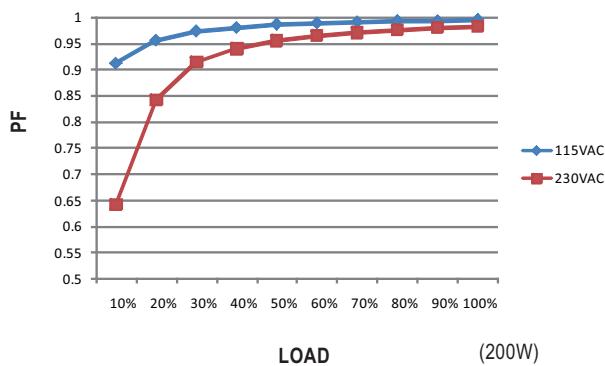
■ Derating Curve



■ Static Characteristics

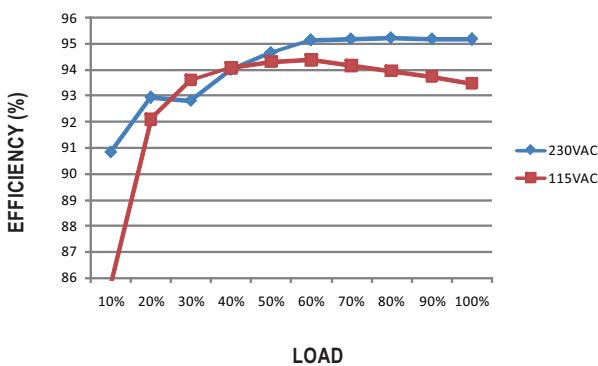


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

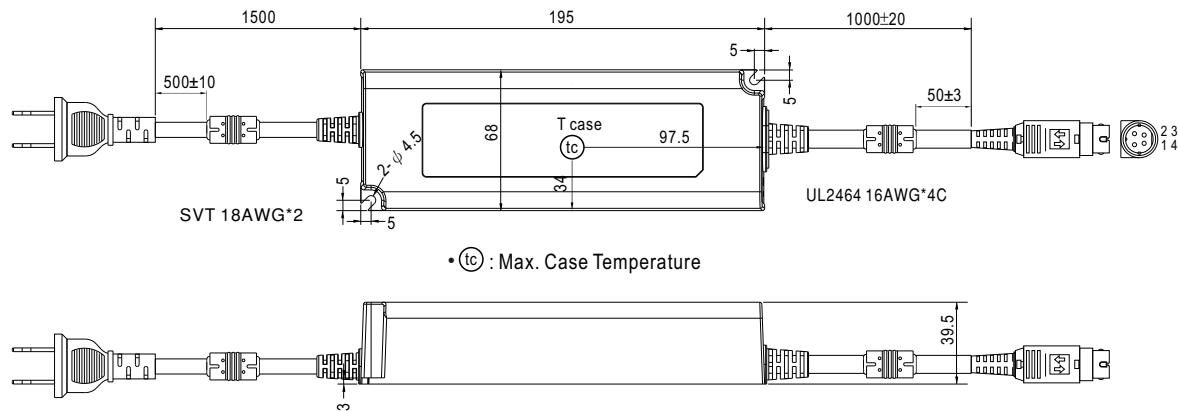
OWA-200 series possess superior working efficiency that up to 94% can be reached in field applications.



■ Mechanical Specification

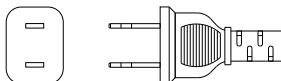
Case No. PWM-200

Unit:mm



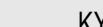
■ Input Plug Type

All models : NEMA 1-15p male plug



■ DC output plug

○ Standard plug:

KYCON KPPX-4P equivalent	Type No.	Pin Assignment		Available for all model (Current rating: 15A max.)
		PIN No.	Output	
   KYCON KPPX-4P equivalent	R7B	1	+Vo	
		2	-Vo	
		3	-Vo	
		4	+Vo	

◎ Optional DC plug:

Tuning Fork Style	Type No.	A	B	C	Adaptation model
		OD	ID	L	
 (Straight)	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		Output	Available for all model (Current rating: 15A max.)
		PIN No.	Output		
 FG not connected to output connector	C6P	1	+Vo		Available for all model (Current rating: 15A max.)
		2	+Vo		
		3	+Vo		
		4	-Vo		
		5	-Vo		
		6	-Vo		



200W Single Output Moistureproof Adaptor

OWA-200U series

NEUTRIK XLR NC4FX equivalent	Type No.	Pin Assignment		Available for all model (Current rating: 15A max.)
		PIN No.	Output	
	MIC4	1	+Vo	Available for all model (Current rating: 15A max.)
		2	+Vo	
		3	-Vo	
		4	-Vo	
LLT-M19-20002F307 equivalent	Type No.	Pin Assignment		Available for all model (Current rating: 15A max.)
		PIN No.	Output	
		1	+Vo	
	M19	2	-Vo	
DW-M15-02F equivalent	Type No.	Pin Assignment		Available for 20V/24V/36V/48V/54V (Current rating: 10A max.)
		PIN No.	Output	
		1	+Vo	
	M15	2	-Vo	
XLR4P, NEUTRIK NC4MX equivalent	Type No.	Pin Assignment		Available for all model (Current rating: 15A max.)
		PIN No.	Output	
		1	+Vo	
		2	+Vo	
		3	-Vo	
		4	-Vo	
	XLR4P	Pin Assignment		Available for all model (Current rating: 15A max.)
		PIN No.	Output	

※ For details, please contact MEAN WELL.

■ Recommend Mounting Direction



■ Installation Manual

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