















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 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

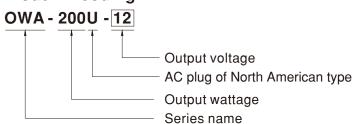
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

OWA-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 $^{\circ}$ C to +70 $^{\circ}$ C.

Model Encoding

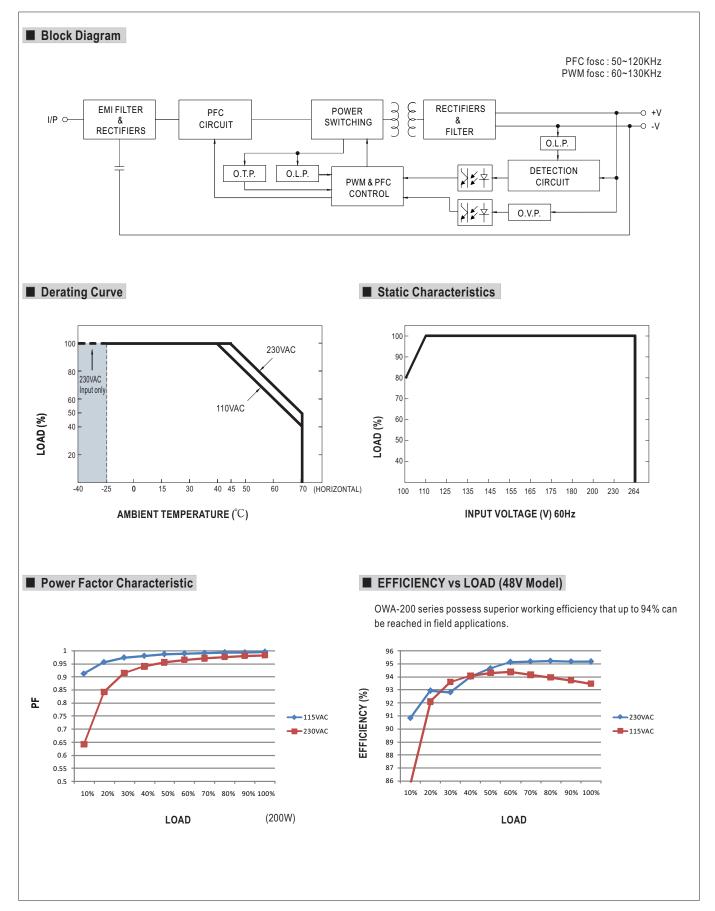




SPECIFICATION

MODEL		OWA-200U-12	OWA-200U-20	OWA-200U-24	OWA-200U-36	OWA-200U-42	OWA-200U-48	OWA-200U-54		
	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	
ОИТРИТ	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	350mVp-p	
OUTPUT	VOLTAGE TOLERANCE Note.3		±5.0%	±4.0%	±4.0%	±3.0%	±3.0%	±3.0%	±3.0%	
	LINE REGULATION	ON	±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 / 115VAC							
	HOLD UP TIME (Тур.)	10ms at full load	230VAC / 115	VAC					
	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%	91.5%	91.5%	
INPUT	(Тур.)	230VAC	91%	92.5%	93%	94%	94%	94%	94%	
	AC CURRENT (T	yp.)	2.2A / 115VAC							
	INRUSH CURRENT (Typ.)		COLD START 90A(twidth=300µs measured at 50% lpeak) at 115VAC COLD START 180A(twidth=450µs measured at 50% lpeak) at 230VAC							
	LEAKAGE CURRENT		<0.125mA / 120VAC <0.25mA / 240VAC							
	NO LOAD CONSU	UMPTION	<0.15W							
			105% ~ 150%							
	OVER CURRENT		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
DDOTECTION	SHORT CIRCUIT		Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION	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 TEMPERA	E(max) Note.2 150mVp-p 150mVp-p 150mVp-p 200mVp-p 250mVp-p 250mVp-p 355								
WORKING TEMP.		-40 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY		· ·							
ENVIRONMENT	STORAGE TEMP., HUMIDITY		·							
	TEMP. COEFFICIENT		±0.03%/°C (0~50°C)							
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	SAFETY STANDA	ARDS	UL62368-1; IP6	7(for power bod	ly) approved; D	esign refer with	UL1012			
SAFETY &	WITHSTAND VO	LTAGE	I/P-O/P:4.2KVA	vC .						
EMC	ISOLATION RES	ISTANCE	I/P-O/P:100M C	hms / 500VDC	/ 25°C/ 70% RH					
	EMC EMISSION		Compliance to FCC Part15							
	MTBF									
OTHERS	DIMENSION		195*68*39.5mm							
	PACKING									
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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. 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 									
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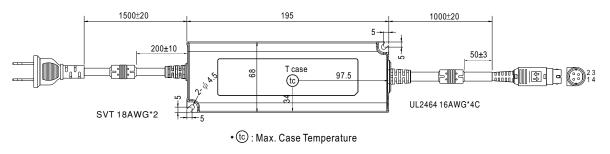




■ Mechanical Specification

Case No. PWM-200

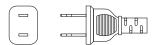
Unit:mm





■ Input Plug Type

All models : NEMA 1-15p male plug



■ DC output plug

O Standard plug:

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

Optional DC plug:

Tuning Fork Style	Type No.	Α	В	С	Adaptation model	
Tulling Folk Style		OD	ID	L	Adaptation model	
	P1J	5.5	2.1	11.0	Available for 36V/48V/54V	
(Straight)	P1M	5.5	2.5	11.0	(Current rating: 7.5A max.)	
MOLEY 30 01 2060 (4.2mm) equivalent	Type No.	Pin	in Assignment			
MOLEX 39-01-2060 (4.2mm) equivalent		PIN No.	Output			
	C6P	1	+\	′ o		
		2	+\	' 0	Available for all model	
456		3	+Vo		(Current rating: 15A max.)	
456		4	-Vo			
		5	-Vo			
FG not connected to output connector		6	-V	0		





NEUTRIK VI D NOAEV aminalant		Pin Assignment		
NEUTRIK XLR NC4FX equivalent	Type No.	PIN No.	Output	
, B	MIC4	1	+Vo	Available for all model
		2	+Vo	(Current rating: 15A max.)
		3	-Vo	
		4	-Vo	
LLT-M19-20002F307 equivalent	Tuna Na	Pin Assignment		
EET-W13-200021 007 equivalent	Type No.	PIN No.	Output	
	M19	1	+Vo	Available for all model (Current rating: 15A max.)
		2	-Vo	(Current fatting, 15A max.)
DW-M15-02F equivalent	Tuna Na	Pin Assignment		
DVV-W13-021 equivalent	Type No.	PIN No.	Output	
		1	+Vo	Available for 20V/24V/36V/48V/54V (Current rating: 10A max.)
	M15	2	-Vo	(55.23.23.33.42.41.41.41)
XLR4P, NEUTRIK NC4MX equivalent	Type No.	Pin Assignment		
ALK4F, NEOTKIK NO4WA equivalent		PIN No.	Output	
	XLR4P	1	+Vo	Available for all model
3,2		2	+Vo	(Current rating: 15A max.)
4 (00)		3	-Vo	
		4	-Vo	

 $[\]ensuremath{\ensuremath{\%}}$ For details, please contact MEAN WELL.

■ Recommend Mounting Direction



■ Installation Manual

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