## XLD-ND-MW-LPV-60-24

	Designer:		Fixture	e:			
(iC	Cato	<b>D</b> <sup>®</sup>			LED Dr		ant Voltage • 60\ -L LPV-60 Serie
SPECIFICA	THE THE PARTY OF T			<ul> <li>Withstand 300</li> <li>Protections: S</li> <li>Cooling by free</li> <li>Fully encapsu</li> <li>Fully isolated p</li> <li>Class II power</li> <li>Class 2 power</li> <li>Pass LPS</li> <li>Suitable for LE (such as LED)</li> <li>100% full load</li> <li>Low cost, high</li> </ul>	nput / Full range VAC surge input f hort circuit / Over l e air convection lated with IP67 lev plastic case er unit, no FG unit ED related fixture c Decoration or Adve burn-in test ureliability urb (S1988/Brd28ct3)	load / Over voltag el (Note.8) or appliance ertisement device	
MODEL		LPV-60-5	LPV-60-12	LPV-60-15	LPV-60-24	LPV-60-36	LPV-60-48
	DC VOLTAGE	5V	12V	15V	24V	36V	48V
1 H	RATED CURRENT	8A	5A	4A	2.5A	1.67A	1.25A
1 E	CURRENT RANGE RATED POWER	0~8A 40W	0~5A 60W	0 ~ 4A 60W	0 ~ 2.5A 60W	0~1.67A 60W	0~1.25A 60W
1 F	RATED POWER RIPPLE & NOISE (max.) Note.2		60W 120mVp-p	60W 120mVp-p	60W 150mVp-p	60W 150mVp-p	150mVp-p
I OUTPUT E	VOLTAGE TOLERANCE Note.3		±5.0%	1.20114b.b	1001111 p	100mm b b	1.00m/p p
	LINE REGULATION	±1.0%					
1 H	LOAD REGULATION	±6.0%	±2.0%				
1 F			C 500ms, 20ms / 1 16ms/115VAC at fi		36V) ; 500ms, 30ms / 23	0VAC 500ms, 30ms /	115VAC at full load(for 48V)
	HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4		27 ~ 370VDC				
1 F	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	76%	83%	83%	86%	86%	86%
	AC CURRENT (Typ.)	1.2A/115VAC 1A/					
1 E	INRUSH CURRENT(Typ.)	COLD START 60A(t	width=525µs meas	sured at 50% Ipeak) at	230VAC		
1 1	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit break	er of type B) / 6 un	its (circuit breaker of t	ype C) at 230VAC		
- I I	LEAKAGE CURRENT	0.25mA / 240VAC					
	OVER LOAD	110 ~ 150% rated ou	itput power				
PROTECTION				rs automatically after fa			55.0 01.014
	OVER VOLTAGE	5.75 ~ 6.75V Protection type : Shi	13.8 ~ 16.2V	17.25 ~ 20.25V e, re-power on to recov	27.6 ~ 32.4V er	41.4 ~ 48.6V	55.2 ~ 64.8V
	WORKING TEMP.	-30 ~ +70°C (Refer t					
1 H	WORKING HUMIDITY	20 ~ 90% RH non-co	ondensing				
1 E	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95					
- E	TEMP. COEFFICIENT VIBRATION	±0.03%/°C (0 ~ 50°C	,	for 60min. each along	X Y Zaxes		
	SAFETY STANDARDS	UL879(except for L CAN/CSA C22.2 No	PV-60-5), UL1310 . 223-M91(excep	0(except for LPV-60-5) t for LPV-60-5,LPV-60 005+A2:2013 approve	, CSA C22.2 No. 207- I-48), BIS IS15885(for	r LPV-60-12,LPV-60-	
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC		1.2.2010 app10/0	, assign to for to TO		
- E	ISOLATION RESISTANCE	I/P-O/P:>100M Ohm					
1 H	EMC EMISSION		, ,	ass B, EN61000-3-2 C			
	EMC IMMUNITY MTBF	Compliance to EN61 732Khrs min. MIL		,11, EN55024, light ind	ustry level, criteria A, I	EAC IPIC 020	
	DIMENSION	162.5*42.5*32mm (L		0)			
- F	PACKING	0.4Kg; 32pcs/13.8Kg	,				
NOTE	<ol> <li>All parameters NOT specially</li> <li>Ripple &amp; noise are measured</li> <li>Tolerance : includes set up to</li> <li>Derating may be needed und</li> <li>The power supply is consider complete installation, the final</li> <li>Length of set up time is meas</li> <li>Suitable for indoor use or out</li> </ol>	at 20MHz of bandwi lerance, line regulatio er low input voltage. I ed as a component ti equipment manufact sured at first cold star tdoor use without dire	dth by using a 12" on and load regula Please check the nat will be operate urers must re-qua t. Turning ON/OFF act sunlight exposu	twisted pair-wire termi tion. static characteristics fo d in combination with f lify EMC Directive on tl the power supply ma rre. Please avoid imme	nated with a 0.1uf & 4 r more details. inal equipment. Since I ne complete installatior y lead to increase of th	7uf parallel capacitor. EMC performance wil n again. ne set up time. 30 minute.	I be affected by the

1:00+0

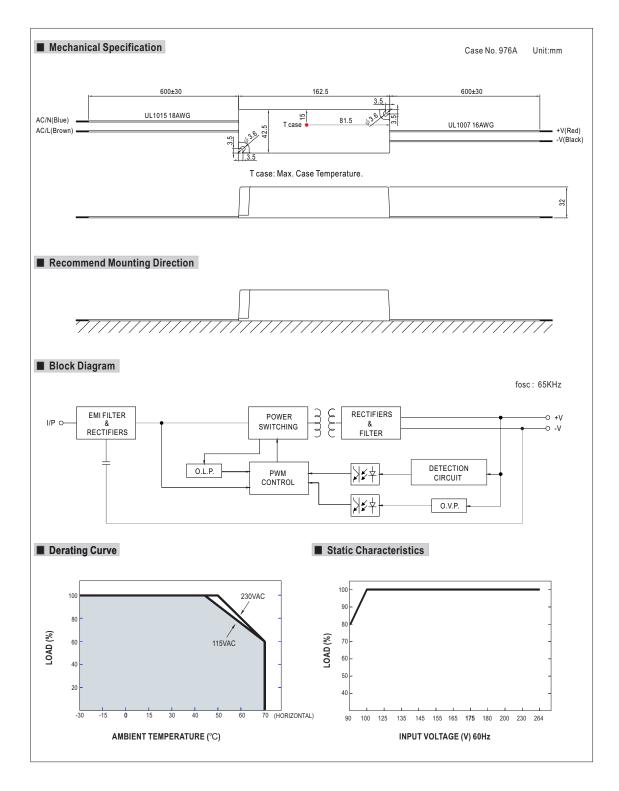
**R** 

This product is not intended for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.)
 To fulfill requirements of latest ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains.





## LED Driver • Constant Voltage • 60W MEAN WELL LPV-60 Series





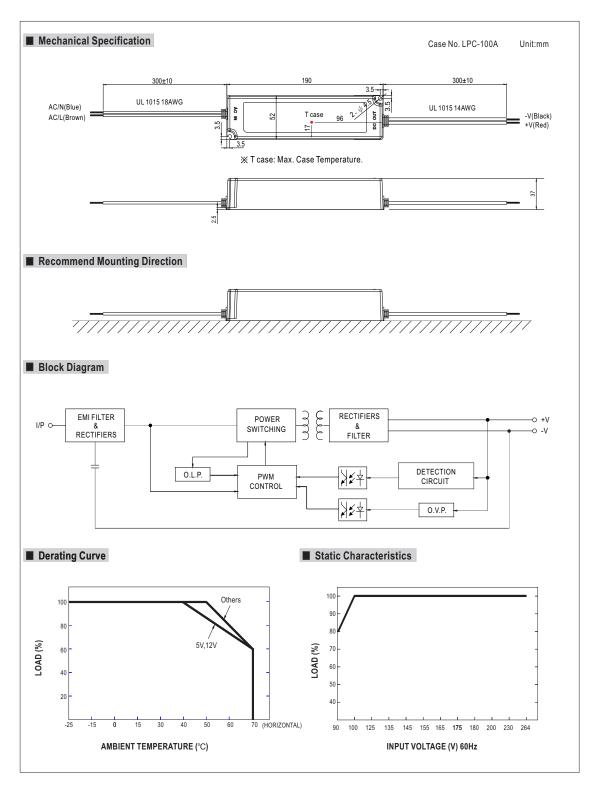
(iC	ato	<b>)</b> ®					ant Voltage • 100 _L LPV-100 Seri
SPECIFICATI	2	in the second se	۲	<ul> <li>Fully encapsu</li> <li>Withstand 300</li> <li>Protections: S</li> <li>Fully isolated</li> <li>Cooling by free</li> <li>100% full load</li> <li>Low cost, higl</li> <li>Suitable for L</li> </ul>	input / Full range ilated with IP67 le DVAC surge input Short circuit / Over plastic case e air convection d burn-in test n reliability ED related fixture Decoration or Adv	for 5 seconds load / Over volta or appliance rertisement devi Sitterrat3ert3	-
		LPV-100-5	LPV-100-12	LPV-100-15	LPV-100-24	(for 12V,24V only)	LPV-100-48
-	/OLTAGE	5V	12V	15V	24V	36V	48V
	ED CURRENT	12A	8.5A	6.7A	4.2A	2.8A	2.1A
	RENT RANGE	0 ~ 12A 60W	0~8.5A 102W	0 ~ 6.7A 100.5W	0~4.2A 100.8W	0~2.8A 100.8W	0 ~ 2.1A 100.8W
RIPE	PLE & NOISE (max.) Note.2		102W 120mVp-p	120mVp-p	150mVp-p	100.8W 150mVp-p	150mVp-p
	TAGE TOLERANCE Note.3		±5.0%	12011179.9	Toomvp p	loom tp p	
LINE	REGULATION	±1.0%					
	D REGULATION	±6.0%	±2.0%				
	UP, RISE TIME Note.6	2000ms, 25ms / 23 50ms/230VAC	80VAC 2000ms, 25r 14ms/115VAC at fu				
	.D UP TIME (Typ.) TAGE RANGE Note.4		127 ~ 370VDC	li load			
	QUENCY RANGE	47 ~ 63Hz	121 010100				
INPUT	ICIENCY (Typ.)	80%	85%	87%	88%	88%	89%
ACO	CURRENT	2.2A/115VAC 1.					
	JSH CURRENT(Typ.)			ured at 50% Ipeak) at			
	CUIT BREAKER	2 units (circuit brea	aker of type B) / 3 uni	ts (circuit breaker of t	ype C) at 230VAC		
LEA	KAGE CURRENT	0.25mA / 240VAC					
OVE	RLOAD	110 ~ 150% rated					
PROTECTION		Protection type : H 5.75 ~ 6.75V	liccup mode, recover 13.8 ~ 16.2V	s automatically after fa	ault condition is remove 27.6 ~ 32.4V	d 41.4 ~ 48.6V	55.2 ~ 64.8V
OVE	R VOLTAGE			, re-power on to recov		41.4 40.0 V	JJ.2 * 04.0V
WO	RKING TEMP.	,,	r to "Derating Curve"				
	RKING HUMIDITY	20 ~ 90% RH non-					
	RAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~					
	IP. COEFFICIENT	±0.03%/°C (0 ~ 50 10 ~ 500Hz, 2G 10	,	or 60min. each along	X. Y. Z axes		
	ETY STANDARDS	UL8750,CSA C22.	2 No 250.13-12,UL8	79,CSA C22.2 No.207	-M89,BIS IS15885(for I	_PV-100-12,LPV-100	0-24 only),
14/17/			67 approved. Design	refer to EN60950-1			
SAFELLO	ATION RESISTANCE	I/P-O/P:3KVAC	nms / 500VDC / 25°C/	70% RH			
	EMISSION				Class A(≪80% load), E	N61000-3-3, EAC TF	P TC 020
	IMMUNITY				ustry level, criteria A, E	AC TP TC 020	
OTHERS DIM			11L-HDBK-217F (25°C	2)			
Dim	ENSION KING	190*52*37mm (L*\ 0.63Kg;20pcs/13.6	,				
	Il parameters NOT specially	0: 1	0	put, rated load and 25	°C of ambient tempera	ture.	
2. R 3. T 4. D 5. T α 6. L 7. S 8. T	ipple & noise are measured olerance : includes set up t erating may be needed unk he power supply is conside mpilete installation, the fina ength of set up time is mea suitable for indoor use or ot he ambient temperature de roducts sourced from the A	blerance, line regula der low input voltage red as a component al equipment manufa sured at first cold st utdoor use without di rating of 3.5°C/1000	tion and load regulati e. Please check the s t that will be operated acturers must re-quali art. Turning ON/OFF irect sunlight exposur m with fanless mode	ion. tatic characteristics for l in combination with f fy EMC Directive on the the power supply ma- re. Is and of 5°C/1000m v	r more details. inal equipment. Since I ne complete installatior y lead to increase of th	EMC performance wi again. e set up time.	ill be affected by the

Field modifications and installation must comply with all local and national codes as well as Xicato's installation methods, see xicato.com for more information. Manufacturer retains the right to change specification information at any time.





## LED Driver • Constant Voltage • 100W MEAN WELL LPV-100 Series





## XLD-ND-MW-OWA-60U-24

**Project:** 

## Xicato<sup>®</sup>XLD-ND

**XiCato** 

**Designer:** 

## LED Power Supply • AC Plug/DC Connector • 60W MEAN WELL OWA-60U Series

## Features

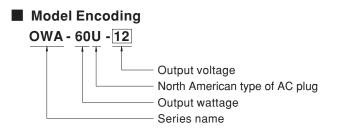
- · Universal AC input / Full range (up to 264VAC)
- High efficiency up to 91%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Class II power unit, no FG
- Class 2 power unit
- Fully isolated plastic case
- Fanless design, cooling by free air convection
- No load power consumption <0.15W</li>
- Comply with EISA 2007 DoE and NRCan
- UL LISTED, suitable for dry and damp locations
- Various DC plug quick adapter accessory available Plug kit sold separately, please contact TRC Electronics for details.
- 5 years warranty

## Description

OWA-60U is one 60W single-output external LED power supply series. Pairing the North American type of AC plug and the prevailing DC connectors, OWA-60U, working like an adaptor, simplifies the connection with LED lighting fixtures without extra wiring efforts. The entire series is certified with the "UL LISTED" for dry and damp locations.

Fixture:

As a class II (no FG) design, the enclosure of OWA-60U 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 91%, OWA-60U is cooled by free air convection; the working temperature ranges from -35 $^{\circ}$  to +70 $^{\circ}$ .



## ULB750 (for 42V,48V,54V) COLUBITS0 (except for 42V,48V,54V) FC VI IP67 (for power body) C

- Indoor LED lighting
- LED decorative lighting
- LED office lighting
- General electronic products in dusty or humid environment





## LED Power Supply • AC Plug/DC Connector • 60W MEAN WELL OWA-60U Series

**XLD-ND** 

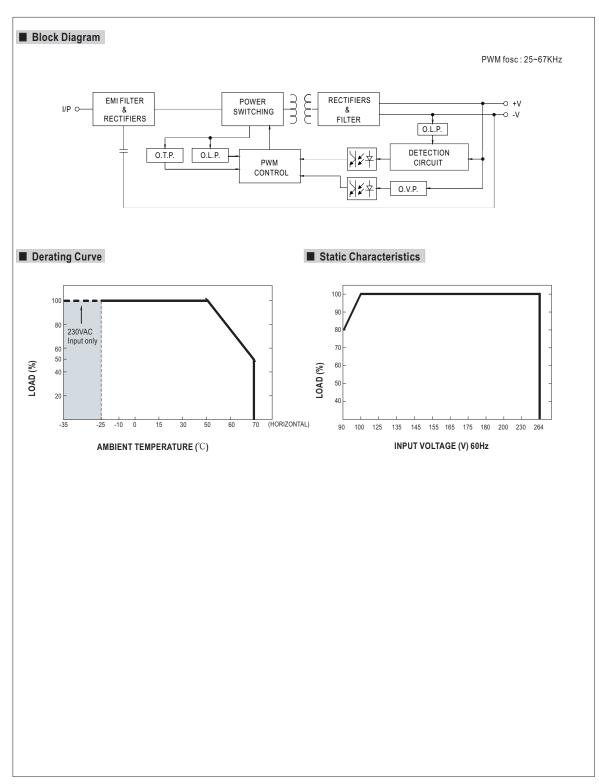
## SPECIFICATION

MODEL			OWA-60U-12	OWA-60U-15	OWA-60U-20	OWA-60U-24	OWA-60U-30	OWA-60U-36	OWA-60U-42	OWA-60U-48	OWA-60U-54	
	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRE	NT REGION	6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18~36V	21~42V	24 ~ 48V	27 ~ 54V	
	RATED CURREN	IT	5A	4A	3A	2.5A	2A	1.67A	1.5A	1.25A	1.12A	
	RATED POWER		60W	60W	60W	60W	60W	60.12W	63W	60W	60.48W	
	RIPPLE & NOISE (n	nax.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	250mVp-p	250mVp-p	350mVp-p	
OUTPUT	VOLTAGE TOLERA	NCE Note.3	±4.0%	±4.0%	±4.0%	±3.0%	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION		±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIM	IE Note.4	500ms, 80m	s/230VAC	1000ms, 80r	ns/115VAC a	t 95% load		1	1	1	
	HOLD UP TIME (	Тур.)	10ms at full	load 115VA	AC / 230VAC							
	VOLTAGE RANG	E	90 ~ 264VA0	C 127 ~	370VDC							
	FREQUENCY RA	NGE	47 ~ 63Hz									
	EFFICIENCY	115VAC	87%	88%	88%	88.5%	88.5%	88.5%	88.5%	88.5%	89%	
INPUT	(Typ.)	230VAC	88%	89%	89%	90%	90%	90%	90%	91%	91%	
	AC CURRENT (Typ.)		1.2A / 115V/	AC 0.7A	/ 230VAC							
	INRUSH CURRENT (Typ.)		COLD START 35A(twidth=750µs measured at 50% lpeak) at 115VAC COLD START 65A(twidth=750µs measured at 50% lpeak) at 230VAC									
	MAX. No. of PSU CIRCUIT BREAK		2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURF	RENT	<0.25mA/2	40VAC								
	OVER CURRENT		95 ~ 108%									
			Protection type : Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	•	Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION	OVER VOLTAGE		14 ~ 16V	17.5 ~ 23V		28~34V	34 ~ 40V	41~50V	46~54V	53~62V	58~66V	
			Protection ty	/pe : Shut do	wn o/p voltag	e, re-power o	on to recover					
			Shut down o/p voltage, re-power on to recover									
	WORKING TEMP		-35 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY		20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP.,	HUMIDITY										
	TEMP. COEFFIC	IENT	±0.03%/°C (0~50°C)									
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	SAFETY STAND	ARDS	UL8750 list	ed; CSA C22	.2 No.250.13	-12(except fo	or 42V,48V,54	V); IP67 app	roved for pow	/er body		
	WITHSTAND VO	LTAGE	I/P-0/P:3.75KVAC									
SAFETY &	ISOLATION RES	ISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH									
EMC	EMC EMISSION		Compliance to FCC Part15									
	MTBF		292.8K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION		130*53*35mm									
	PACKING		0.41Kg; 16pcs/9.5Kg/0.85CUFT									
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>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.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>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.</li> </ol>									arallel		





LED Power Supply • AC Plug/DC Connector • 60W MEAN WELL OWA-60U Series

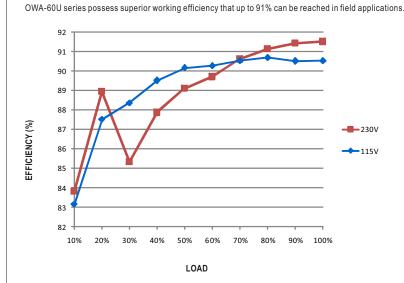






LED Power Supply • AC Plug/DC Connector • 60W MEAN WELL OWA-60U Series

## EFFICIENCY vs LOAD (48V Model)



### DRIVING METHODS OF LED MODULE

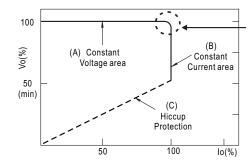
There are two major kinds of LED drive method, "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV)" or "constant current mode (CC)" to drive the LEDs. Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).

In the constant current region, the highest voltage at the output of the driver

Should there be any compatibility issues, please contact TRC Electronics for details.

depends on the configuration of the end systems.

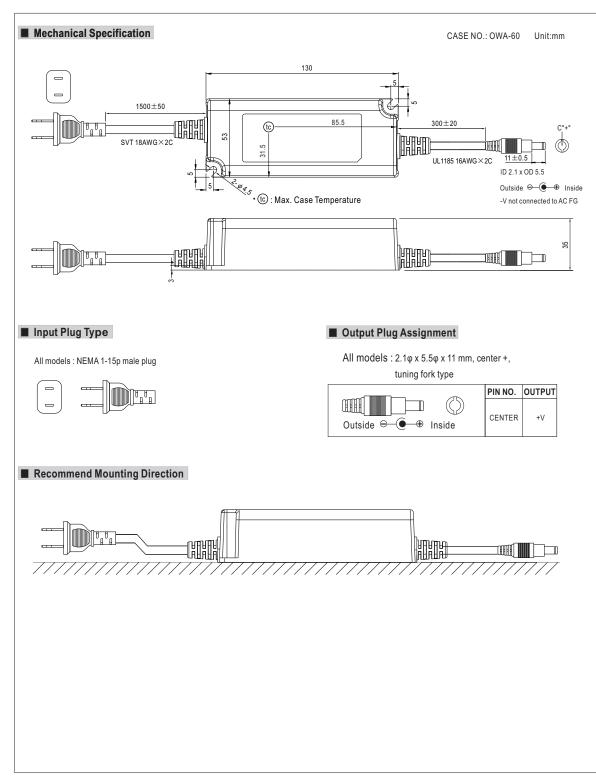


Typical LED power supply I-V curve





LED Power Supply • AC Plug/DC Connector • 60W MEAN WELL OWA-60U Series





## XLD-ND-MW-OWA-90U-24-P1M

XiCato

### Project:

Designer: \_\_\_\_

\_\_\_\_\_ Fixture:



## LED Power Supply • AC Plug/DC Connector • 90W MEAN WELL OWA-90U Series

(R) FC IP67

· General electronic products in dry or

## Features

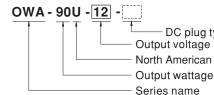
- · Universal AC input / Full range
- · Built-in active PFC function
- · Class 2 power unit (except OWA-90U-12/15)
- High efficiency up to 91%
- · Protections: Short circuit / Over current /
- Over voltage / Over temperature
- \* Class  ${\rm I\!I}$  power unit, no FG
- · Fanless design, cooling by free air convection
- No load power consumption <0.15W</li>
- · Energy efficiency Level VI
- · Comply with EISA 2007 DoE and NRCan
- UL LISTED, suitable for dry and damp locations
- · Various DC plug quick adapter accessory available
- Plug kit sold separately, please contact TRC Electronics for details.
- 5 years warranty

## Description

OWA-90U is one 90W single-output external LED power supply series. Pairing the North American type of AC plug and the prevailing DC connectors, OWA-90U, working like an adaptor, simplifies the connection with LED lighting fixtures without extra wiring efforts. The entire series is certified with the "UL LISTED" for dry and damp locations.

As a class II (without earth pin) design, the enclosure of OWA-90U 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 91%, OWA-90U is cooled by free air convection; the working temperature ranges from  $-40^{\circ}$ C to  $+70^{\circ}$ C.

## Model Encoding



DC plug type Blank:Plug for 12V~54V,power DIN 4P with lock type P1M:Plug for 20V~54V only,2.5 $\oplus$ x5.5 $\oplus$ x11mm,c+,tuning fork type Optional plug type available per request North American type of AC plug

c(VL)us

Applications

LED lighting fixture

damp environment

LED decorative lighting
LED office lighting





## LED Power Supply • AC Plug/DC Connector • 90W MEAN WELL OWA-90U Series

**XLD-ND** 

## SPECIFICATION

MODEL			OWA-90U-12	OWA-90U-15	OWA-90U-20	OWA-90U-24	OWA-90U-30	OWA-90U-36	OWA-90U-42	OWA-90U-48	OWA-90U-5	
	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRE	ENT REGION	7.2 ~ 12V	9 ~ 15V	12~20V	14.4 ~ 24V	18~30V	21.6~36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 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	
OUTPUT	VOLTAGE TOLERA	NCE Note.3	±4.0%	±4.0%	±4.0%	±3.0%	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION		±0.5%	$\pm 0.5\%$	±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%	
			500ms, 80ms at 95% load 115VAC / 230VAC									
	HOLD UP TIME (Typ.)		16ms at full	oad 115VA	AC / 230VAC							
	VOLTAGE RANG	GE	90 ~ 264VAC 127 ~ 370VDC									
	FREQUENCY RA	ANGE	47 ~ 63Hz									
	POWER FACTO	R (Typ.)	PF>0.98/115	VAC, PF>0.9	96/230VAC a	t full load						
	TOTAL HARMONIC						C/230VAC					
INPUT	EFFICIENCY	115VAC	88%	89%	89%	89%	89%	89.5%	89.5%	89.5%	89.5%	
	(Typ.)	230VAC	89%	90%	90%	90%	90%	91%	91%	91%	91%	
	AC CURRENT (1	Гур.)	0.95A / 115	/AC 0.5	A/230VAC	1			I			
			COLD START 30A (twidth=550µs measured at 50% lpeak) at 115VAC									
	INRUSH CURRENT (Typ.)		COLD START 60A (twidth=550µs measured at 50% lpeak) at 230VAC									
	MAX. NO. of PSI CIRCUIT BREAK		3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CUR	RENT	<0.125mA / 120VAC <0.25mA / 240VAC									
	OVER CURRENT		95 ~ 108%									
			Protection type : Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT		Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION	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									
	WORKING TEM	Р.	-40 ~ +70 $^{\circ}$ C (Refer to "Derating Curve")									
	WORKING HUMIDITY		20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP.	, HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFIC	IENT	±0.03%/°C (0~50°C)									
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	SAFETY STAND	ARDS	UI8750 listed, CSA C22.2 No. 250.13-12(except for 42V, 48V, 54V); IP67(for main body) approved									
SAFETY &	WITHSTAND VO	LTAGE	I/P-0/P:3.75KVAC									
EMC		-	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH									
	EMC EMISSION		Compliance to FCC Part15									
	MTBF		292.8K hrs i		IDBK-217F (2	25°C)						
OTHERS	DIMENSION		171*63*37.5mm									
	PACKING		0.83Kg; 16pcs/14.3Kg/1.01CUFT									
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>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.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>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.</li> <li>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).</li> </ol>								arallel : up time.			

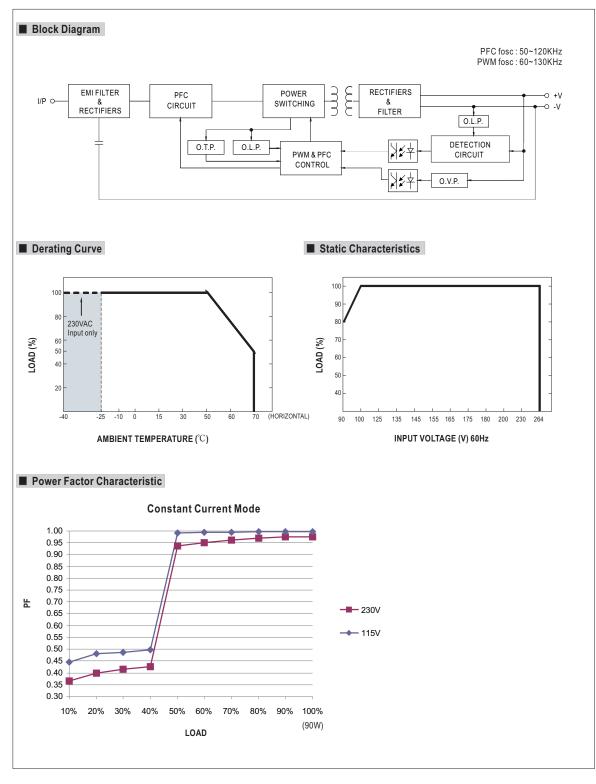
Field modifications and installation must comply with all local and national codes as well as Xicato's installation methods, see xicato.com for more information. Manufacturer retains the right to change specification information at any time.







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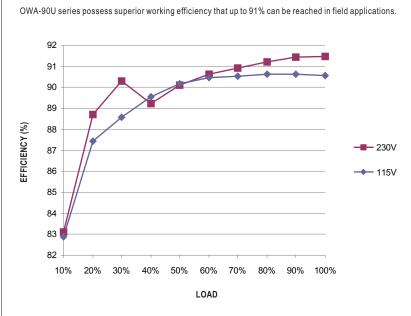






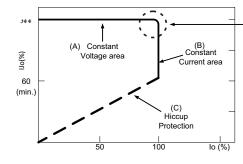
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## EFFICIENCY vs LOAD (48V Model)



## DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method, "direct drive" and "with LED driver". A typical LED power supply may either work in "constant voltage mode (CV)" or "constant current mode (CC)" to drive the LEDs. Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve

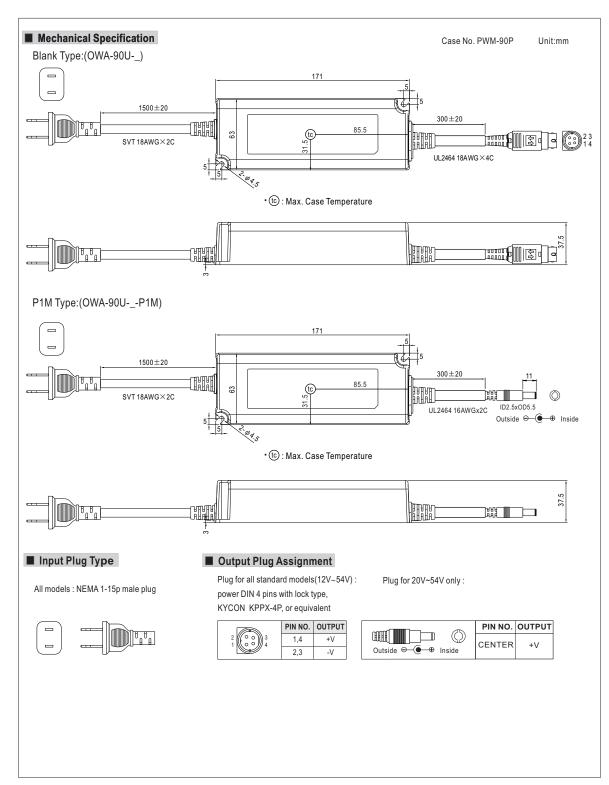
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact TRC Electronics for details.





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Recommend N	Mounting Direction		
	<sup>#</sup>		



## **XLD-ND**

			Х	FL Drive	r Compa	atibility	Matrix			
	Driver Man	ufacturer	Meanwell	Meanwell	Meanwell	Meanwell	Meanwell	Meanwell	Meanwell	Meanwell
	Driver Part	Driver Part Number		XLD-ND- MW-OWA- 60U-24-P1M	XLD-D010- PWM-60-24	PWM-60- 24-DA <sup>3</sup>	XLD- D010-MW- PWM-90-24	PWM-90- 24-DA <sup>3</sup>	XLD- ND-MW- LPV-60-24	XLD- ND-MW- LPV-100-24
	Input	Voltage Range	90-264VAC	90-264VAC	90-305VAC	90-305VAC	90-305VAC	90-305VAC	90-264VAC	90-264VAC
		Rated Current (A)	2.5	3.75A	2.5	2.5	3.75	3.75	2.5	4.2
	Output	Rated Power (W)	90	60	60	60	90	90	60	100.8
	Dimma	able	No	No		Yes [PWM F	req. 1.47  Hz		No	No
	1-10V Signal Input (Analog)				~		~			
	Dimming Options	10V PWM Input (Digital)			<b>~</b>		~			
		DALI (DT6)				~		>		
	Lighting	Safety	UL8750	UL8750	UL8750	UL8750	UL8750	UL8750	UL8750	UL8750
	IP rat	ing	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
ic White	XFL-SWxx	XFL-SWxx95-2401		18.3	18.3	18.3	27.4	27.4	18.3	30.7
	XFL-SWxx	XFL-SWxx95-2403		6.1	6.1	6.1	9.1	9.1	6.1	10.2
	XFL-SWxx	XFL-SWxx95-2404		4.2	4.2	4.2	6.2	6.2	4.2	7.0
	XFL-SWxx95-2405		5.5	3.7	3.7	3.7	5.5	5.5	3.7	6.4
	XFL-SWxx	95-2406	4.6	3.0	3.0	3.0	4.6	4.6	3.0	5.1
	XFL-HDxx <sup>4</sup>	95-2403	9.1	6.1	6.1	6.1	9.1	9.1	6.1	10.2
Density	XFL-HDxx95-2404		6.2	4.2	4.2	4.2	6.2	6.2	4.2	7.0
	XFL-HDxx95-2405		5.5	3.7	3.7	3.7	5.5	5.5	3.7	6.1
	XFL-HDxx <sup>4</sup>	XFL-HDxx95-2407		2.8	2.8	2.8	4.2	4.2	2.8	4.7
	XFL-FSxx9	95-2403	9.1	6.1	6.1	6.1	9.1	9.1	6.1	10.2
pectrum	XFL-FSxx9	XFL-FSxx95-2404		4.2	4.2	4.2	6.2	6.2	4.2	7.0
pectrum	XFL-FSxx9	95-2405	5.5	3.7	3.7	3.7	5.5	5.5	3.7	6.1
	XFL-FSxx9	XFL-FSxx95-2406		3.0	3.0	3.0	4.6	4.6	3.0	5.1
Emmiting	XFL-SExx9	95-2403	9.1	6.1	6.1	6.1	9.1	9.1	6.1	10.2
ra Slim	XFL-USxx9	XFL-USxx95-2403		4.9	4.9	4.9	7.4	7.4	4.9	8.3
rm Dim	XFL-DWT3	XFL-DWT3D5-2403		N/A	5.7	5.7	8.6	8.6	N/A	N/A
	XFL-TWTx	95-2409	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ole White	XFL-TWTx	95-2414	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ne white	XFL-TWTx	95-2417	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	XFL-TWTx	95-2419	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

### Notes:

Stati

High

Full Sp

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1. Data listed herein is for reference only and does not imply warranty to the led strip or power supply. Xicato recommends consulting with power supply manufacturers to determine compatibility. Data above only suggests initial electrical compatibility and does not guarantee performance over life. Xicato recommends independently verifying all relevent performance parameters. 2. Maximum strip length values do not account for voltage drop within the LED strip itself or voltage drop from wiring between the strip and the power supply. Maximum strip length value does not gurantee uniformity in lumen output or color across entirity of LED strip.

