

OCV Slim FP CLII 12V

Outdoor Power Supplies Full Protection



Ultra-slim (23 mm), the OCV Slim Class II power supply delivers enhanced safety for durable, high-performance installations.

7 YEARS
50.000h
IP67

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ADVANCED SPECIFICATIONS

TOTAL PROTECTION

NEW

Protection **SECURE LINE**

This proprietary technology automatically cuts off power in the event of a short-circuit, whether it occurs at the beginning or end of the line. Unique on the market, it eliminates any risk of overheating or fire, ensuring maximum safety and extended service life for your LED installations.

Protection against **Overload and over-temperature protection**

In the event of a fault, the PSU automatically derates its output to self-protect and prevent failure—an intelligent technology that ensures reliability and continuous operation.

100 % usable capacity

Full utilization of the power-supply's total rating, without compromise.

Example: an OCV Slim FP 120 W unit delivers a true 120 W to your LED modules.

Zero interference, guaranteed EMC compliance.

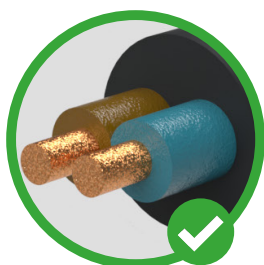
Advanced filtering to suppress disturbances and meet European EMC standards.

Protection against **Overvoltage protection**

Up to 6 kV surge immunity

IP67-rated protection against **Moisture ingress**

Neoprene-jacketed cables for long-term outdoor deployment.



No earthing required



Reinforced insulation (or double insulation)

Class II safety construction



Class II power supplies require no earth connection for electrical safety; their reinforced insulation provides reliable protection regardless of load.

This new feature streamlines integration into luminaires or signs and simplifies the tests mandated by manufacturing standards, while remaining fully compliant with EMC requirements.

OCV Slim FP CLII 12V Outdoor Converter

20W

7 YEARS
50.000hrs
IP67



IP67



100-277 V/AC



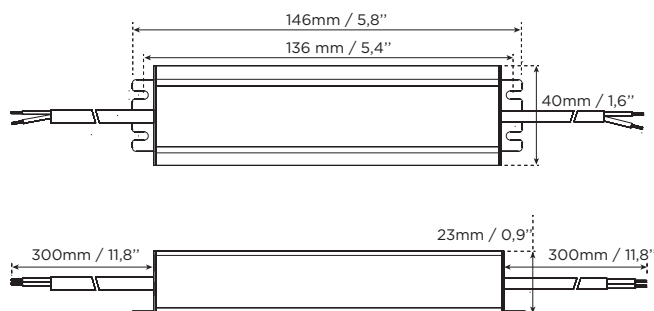
-40°/+50°C

CE **SELV IP67**

FEATURES & BENEFITS

- ▶ SELV
- ▶ 100% full power charge
- ▶ FP (Full Protection): SCP, OCP, OLP, OTP
- ▶ Output 12.5V±4%
- ▶ Class II with reinforced insulation for easier installations
- ▶ Active Power Factor Correction over 0.92 at full load to allow power distribution at its maximum efficiency
- ▶ Efficiency over 79%
- ▶ Metal casing fully encapsulated
- ▶ Complies with IEC lighting safety specifications

DIMENSIONS



TECHNICAL DATA

	21330063	OCV Slim FP CLII 20W 12V 100-277V IP67
Input	Rated supply voltage	100-277VAC
	Frequency range	47-63Hz
	Power factor	PF ≥0.92 at 230VAC (at full load)
	Efficiency	≥79% at 230VAC (at full load)
	Rated current	≤0.12A at 230VAC ≤0.17A at 100VAC
	Inrush current	50A Max.
	Leakage current	≤0.7mA
Output	Output voltage	12.5V±4%
	Output current	1.67A Max.at 180-277VAC 1A Max. at 100-180VAC
	Output power range	2.4-20W 2.4-12W
	Output ripple voltage	≤10%
	Start up time	≤1S
	Short circuit protection	Yes - (please see details in page 7)
	Open circuit protection	Yes - (please see details in page 7)
	Over load protection	Yes - (please see details in page 7)
	Over temperature protection	Yes - (please see details in page 7)
	THD	≤15%
Lifetime	50000h at Tc=80°C	
Surge impulse test	L-N: 6kV	
Environment	Working Temperature	-40°C / +50°C (at full load)
	Storage Temperature	-40°C/+80°C, 10-95% RH

LABEL

			LED CONVERTER		
			OCV Slim FP CLII 20W 12V 100-277V IP67 Vx		
			Code:21330063	● tc: =90°C	
Input L • (Brown) N • (Blue)	Uin: 100-277V~			Uout: 12V = C. V.	Output
	Iin: Max.0.17A			Iout/Pout: LED Module	(Red) ● +
	Freq: 50/60Hz			Max. 1.67A/20W (180-277V~)	(Black) ● -
	PF(λ): 0.95			Max. 1A/12W (100-180V~)	
	ta: 50°C				
	Working temp: -40~+50°C / full load				
Origin: PRC www.ledityaki.com					
		      CE SELV IP67			

1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25°C ambient temperature.

2. The LED driver is considered as a component that will be operated in combination with final equipment, since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC directive on the complete installation again.

OCV Slim FP CLII 12V Outdoor Converter

40W

7 YEARS
50.000hrs
IP67



IP67



100-277 V/AC



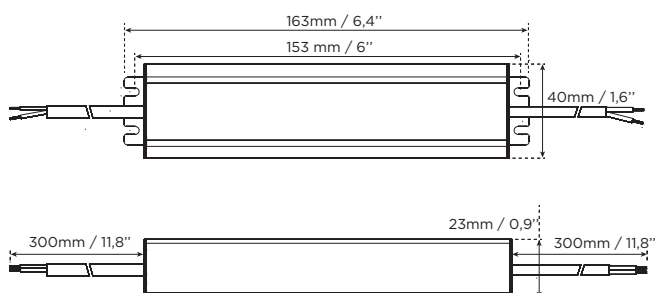
-20°/+50°C

CE **SELV IP67**

FEATURES & BENEFITS

- ▶ SELV
- ▶ 100% full power charge
- ▶ FP (Full Protection): SCP, OCP, OLP, OTP
- ▶ Output 12.5V±4%
- ▶ Class II with reinforced insulation for easier installations
- ▶ Active Power Factor Correction over 0.95 at full load to allow power distribution at its maximum efficiency
- ▶ Efficiency over 83.6%
- ▶ Metal casing fully encapsulated
- ▶ Complies with IEC lighting safety specifications

DIMENSIONS



TECHNICAL DATA

	21330064	OCV Slim FP CLII 40W 12V 100-277V IP67
Input	Rated supply voltage	100-277VAC
	Frequency range	47-63Hz
	Power factor	PF ≥0.95 at 230VAC (at full load)
	Efficiency	≥83.6% at 230VAC (at full load)
	Rated current	≤0.24A at 230VAC ≤0.33A at 100VAC
	Inrush current	50A Max.
	Leakage current	≤0.7mA
Output	Output voltage	12.5V±4%
	Output current	3.33A Max.at 180-277VAC 2A Max. at 100-180VAC
	Output power range	2.4-40W 2.4-24W
	Output ripple voltage	≤10%
	Start up time	≤1S
	Short circuit protection	Yes - (please see details in page 7)
	Open circuit protection	Yes - (please see details in page 7)
	Over load protection	Yes - (please see details in page 7)
	Over temperature protection	Yes - (please see details in page 7)
	THD	≤15%
Lifetime	50000h at Tc=80°C	
Surge impulse test	L-N: 6kV	
Environment	Working Temperature	-40°C / +50°C (at full load)
	Storage Temperature	-40°C/+80°C, 10-95% RH

LABEL

LED CONVERTER		
OCV Slim FP CLII 40W 12V 100-277V IP67 Vx		
Code:21330064 ● tc: =90°C		
Input	Uin: 100-277V~ Iin: Max.0.33A Freq: 50/60Hz PF(λ): 0.95 ta: 50°C Working temp: -40~+50°C / full load	Output (Red) ● + (Black) ● -
L ● (Brown)		
N ● (Blue)		
Origin: PRC www.ledityaki.com		
CE SELV IP67		
Uout: 12V ≈ C. V. Iout/Pout: LED Module Max.3.33A/40W (180-277V~) Max.2A/24W (100-180V~)		

1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25°C ambient temperature.

2. The LED driver is considered as a component that will be operated in combination with final equipment, since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC directive on the complete installation again.

80W



IP67



100-277 V/AC



-40°/+50°C



SELV IP67

TECHNICAL DATA

- | | | | |
|--------------------|-----------------------------|--|-----------------------|
| | 21330065 | OCV Slim FP CLII 80W 12V 100-277V IP67 | |
| Input | Rated supply voltage | 100-277VAC | |
| | Frequency range | 47-63Hz | |
| | Power factor | PF ≥0.95 at 230VAC (at full load) | |
| | Efficiency | ≥86.9% at 230VAC (at full load) | |
| | Rated current | ≤0.46A at 230VAC
≤0.61A at 100VAC | |
| | Inrush current | 60A Max. | |
| | Leakage current | ≤0.7mA | |
| Output | Output voltage | 12.5V±4% | |
| | Output current | 6.67A Max.at 180-277VAC | 4A Max. at 100-180VAC |
| | Output power range | 2.4-80W | 2.4-48W |
| | Output ripple voltage | ≤10% | |
| | Start up time | ≤1S | |
| | Short circuit protection | Yes - (please see details in page 7) | |
| | Open circuit protection | Yes - (please see details in page 7) | |
| | Over load protection | Yes - (please see details in page 7) | |
| | Over temperature protection | Yes - (please see details in page 7) | |
| | THD | ≤15% | |
| Lifetime | 50000h at Tc=80°C | | |
| Surge impulse test | L-N: 6kV | | |
| Environment | Working Temperature | -40°C / +50°C (at full load) | |
| | Storage Temperature | -40°C/+80°C, 10-95% RH | |

Input L ● (Brown) N ● (Blue) Origin: PRC www.ledytaky.com	 LED CONVERTER OCV Slim FP CLII 80W 12V 100-277V IP67 Vx Code:21330065       CE SELV IP67	Uin: 100-277V~ lin: Max.0.61A Freq: 50/60Hz PF(A) : 0.95 ta: 50°C Working temp: -40~+50°C / full load	●tc =90°C Output (Red) ● + (Black) ● - Uout: 12V= C.V. Iout/Pout: LED Module Max.6.67A/80W (180-277V~) Max.4A/48W (100-180V~)
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OCV Slim FP CLII 12V Outdoor Converter

120W

7 YEARS
50.000hrs
IP67



IP67



100-277 V/AC



-40°/+50°C

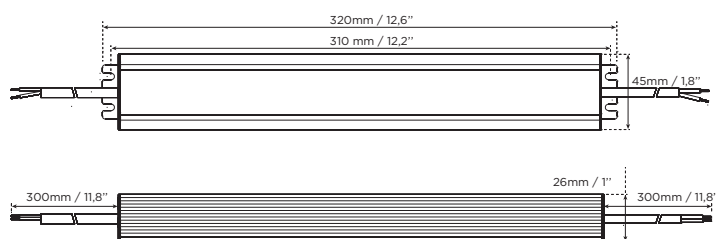


SELV IP67

FEATURES & BENEFITS

- ▶ SELV
- ▶ 100% full power charge
- ▶ FP (Full Protection): SCP, OCP, OLP, OTP
- ▶ Output 12.5V±4%
- ▶ Class II with reinforced insulation for easier installations
- ▶ Active Power Factor Correction over 0.95 at full load to allow power distribution at its maximum efficiency
- ▶ Efficiency over 89%
- ▶ Metal casing fully encapsulated
- ▶ Complies with IEC lighting safety specifications

DIMENSIONS



TECHNICAL DATA

	21330066	OCV Slim FP CLII 120W 12V 100-277V IP67
Input	Rated supply voltage	100-277VAC
	Frequency range	47-63Hz
	Power factor	PF ≥0.95 at 230VAC (at full load)
	Efficiency	≥89% at 230VAC (at full load)
	Rated current	≤0.68A at 230VAC ≤0.94A at 100VAC
	Inrush current	70A Max.
	Leakage current	≤0.7mA
Output	Output voltage	12.5V±4%
	Output current	10A Max.at 180-277VAC 6A Max. at 100-180VAC
	Output power range	2.4-120W 2.4-72W
	Output ripple voltage	≤5%
	Start up time	≤1S
	Short circuit protection	Yes - (please see details in page 7)
	Open circuit protection	Yes - (please see details in page 7)
	Over load protection	Yes - (please see details in page 7)
	Over temperature protection	Yes - (please see details in page 7)
	THD	≤15%
Lifetime	50000h at Tc=80°C	
Surge impulse test	L-N: 6kV	
Environment	Working Temperature	-40°C / +50°C (at full load)
	Storage Temperature	-40°C/+80°C, 10-95% RH

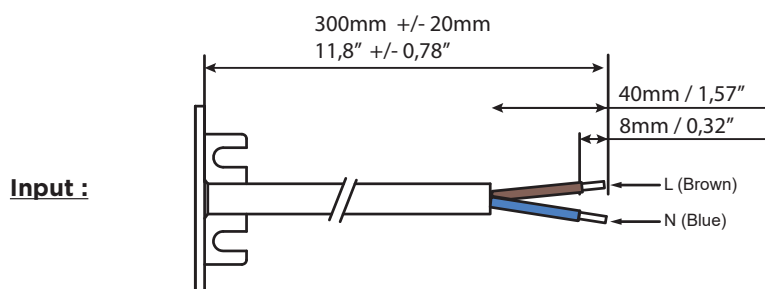
LABEL

Input L ● (Brown) N ● (Blue)	 LED CONVERTER OCV Slim FP CLII 120W 12V 100-277V IP67 Vx Code:21330066	      	Uin: 100-277V~ Iin: Max. 0.94A Freq: 50/60Hz PF(A.): 0.95 ta: 50°C Working temp: -40~+50°C / full load	● tc =90°C	Output (Red) ● + (Black) ● -
			Uout: 12V~ C.V. Iout/Pout: LED Module Max. 10A/120W (180-277V~) Max. 6A/72W (100-180V~)		
			Origin: PRC www.ledityaki.com		

1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25°C ambient temperature.

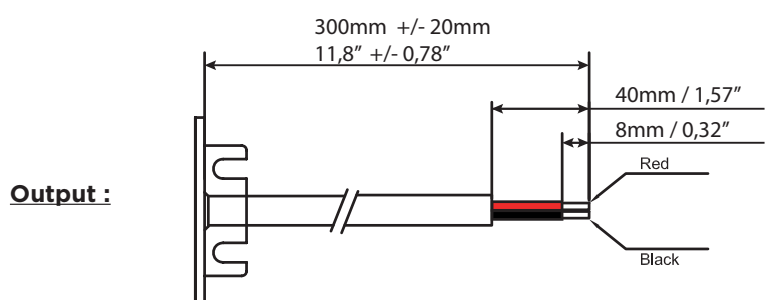
2. The LED driver is considered as a component that will be operated in combination with final equipment, since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC directive on the complete installation again.

CABLE



Cables type 20W / 40W / 80W:

- ▶ Input --> $\varnothing 7.0 \pm 0.2 \text{ mm} - 2 \times 1.0 \text{ mm}^2$
- ▶ Output --> $\varnothing 7.0 \pm 0.2 \text{ mm} - 2 \times 1.0 \text{ mm}^2$



Cables type 120W:

- ▶ Input --> $\varnothing 7.0 \pm 0.2 \text{ mm} - 2 \times 1.0 \text{ mm}^2$
- ▶ Output --> $\varnothing 8.6 \pm 0.2 \text{ mm} - 2 \times 1.5 \text{ mm}^2$

PROTECTIONS

▶ **Short-circuit protection:**

Product no damage, automatically recovers after abnormal conditions are removed.

With unique patented technology of short circuit protection function. If LED strip is long, there is a certain line resistance when the end of LED strip is short circuit. Then the output current may not be large enough to trigger the overload protection and short circuit protection for the ordinary LED driver. But for the product of this spec, when work with LED loading, it can detect whether the line is really short circuit, even if the output current is less than the overload protection current, it can also turn off the output, to avoid line overheat.

▶ **Open circuit protection:**

Product no damage, automatically recovers after abnormal conditions are removed.

▶ **Over load protection:**

Hiccup output or shutdown output, automatically recovers after abnormal conditions are removed. The overload power is between 130%-150% of rated power. OLP only can use LED loading to test it, cannot use electronic loading.

▶ **Over temperature protection:**

Product shutdown, automatically recovers after abnormal conditions are removed. The t_c is between 95-110°C while OTP.

OCV Slim FP CLII 12V Outdoor Converter

20 - 120W

NORMS & CERTIFICATES

- ▶ EN61547:2009
- ▶ EN61347-1:2015
- ▶ EN61347-2-13:2014
- ▶ EN61000-3-2:2014
- ▶ EN62493:2015
- ▶ EN61000-3-3:2013
- ▶ EN55015:2013+A1:2015
- ▶ IEC61347-2-13:2014+A1:2016
- ▶ IEC61347-1:2015+A1:2017

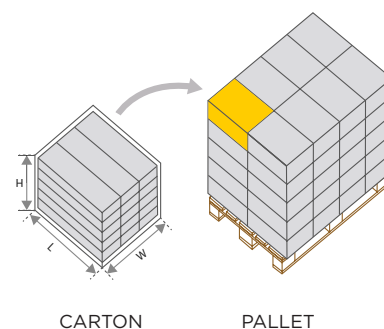


EXPECTED LIFETIME

Type	Expected lifetime							
OCV Slim FP CLII 20W 12V	Ta 30°C Tc 49.3°C	>750,000 h	Ta 40°C Tc 59.3°C	>350,000 h	Ta 50°C Tc 69.3°C	>150,000 h	Ta 60°C Tc 79.3°C	>95,000 h
OCV Slim FP CLII 40W 12V	Ta 30°C Tc 56.5°C	>400,000 h	Ta 40°C Tc 66.5°C	>200,000 h	Ta 50°C Tc 76.5°C	>100,000 h	Ta 60°C Tc 86.5°C	>50,000 h
OCV Slim FP CLII 80W 12V	Ta 30°C Tc 61°C	>150,000 h	Ta 40°C Tc 71°C	>95,000 h	Ta 50°C Tc 81°C	>45,000 h	Ta 60°C Tc 91°C	>20,000 h
OCV Slim FP CLII 120W 12V	Ta 30°C Tc 61.5°C	>150,000 h	Ta 40°C Tc 71.5°C	>85,000 h	Ta 50°C Tc 81.5°C	>40,000 h	Ta 60°C Tc 99°C	>15,000 h

PACKAGING

	Type	SIZE - LxWxH (cm)	SIZE - LxWxH (ft)	Weight (Kg)	Weight (lb)	Nb of Pcs / box
CARTON	OCV Slim FP CLII 20W	40,5 x 18,9 x 20,5	1,3 x 0,6 x 0,7	10,4	23	30
PALLET	OCV Slim FP CLII 20W	120 x 81 x 97	3,9 x 2,7 x 3,2	517,4	1140,7	1440
CARTON	OCV Slim FP CLII 40W	43,2 x 20,3 x 17,5	1,4 x 0,7 x 0,6	14	30,9	30
PALLET	OCV Slim FP CLII 40W	120 x 80 x 102,5	3,9 x 2,6 x 3,4	508,2	1120,4	1050
CARTON	OCV Slim FP CLII 80W	38,7 x 29 x 15,3	1,3 x 1 x 0,5	12	26,5	20
PALLET	OCV Slim FP CLII 80W	120 x 80 x 106,8	3,9 x 2,6 x 3,5	594,2	1310	960
CARTON	OCV Slim FP CLII 120W	38,5 x 38 x 14,6	1,3 x 1,2 x 0,5	13,5	29,8	20
PALLET	OCV Slim FP CLII 120W	120 x 80 x 102,6	3,9 x 2,6 x 3,4	503,5	1110	720



(When the min and max values are not indicated, the tolerance range for optical and electrical data is $\pm 15\%$.)