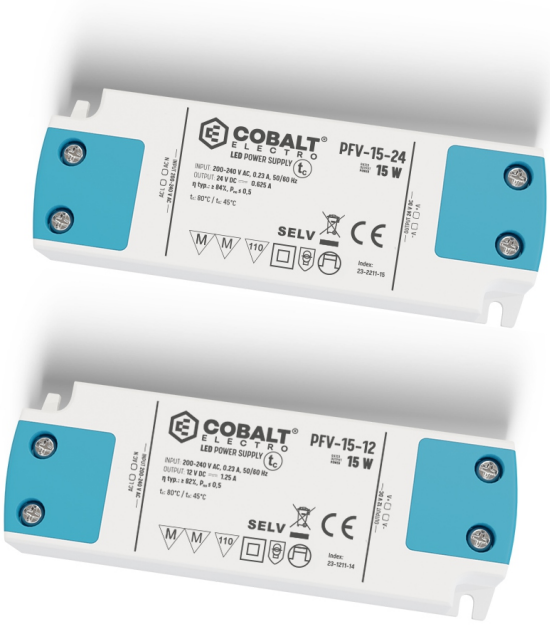
COBALT® ELECTRO

15W Switching Constant Voltage LED Power Supply

PFV-15 SERIES



FEATURES

- Compact size, slim design, light weight
- High efficiency, low temperature rise
- Protections: short circuit, overload, over temperature
- Cooling by free air convection
- Compliance to worldwide regulations for lighting
- IP20 protection
- 5 years warranty

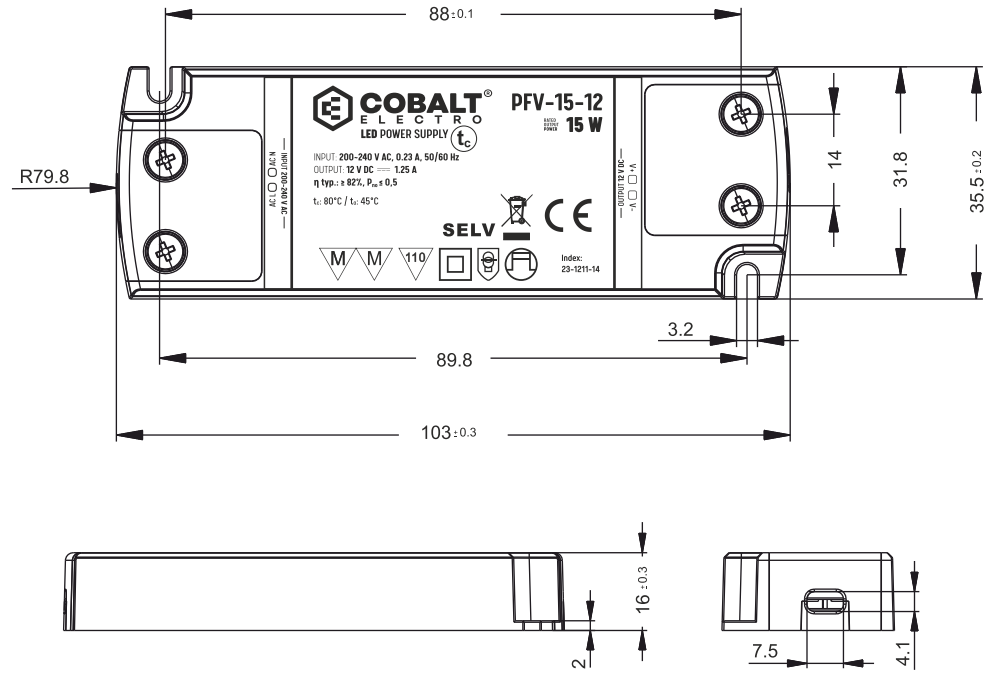
SPECIFICATION		PFV-15-12
OUTPUT	DC Voltage	12V
	Rated Current	1.25A
	Current Range	0 ÷ 1.25A
	Rated Power	15W
	Line Regulation	± 2%
	Load Regulation	± 2%
	Setup, Rise Time (note 4.)	500ms, 50ms/230VAC at full load
	Hold up time	3ms/230V at full load
	Ripple & Noise (note 2.)	500mVp-p
	Voltage Tolerance (note 3.)	± 5%
INPUT	Voltage Range	200-240VAC
	Frequency Range	50 ÷ 60Hz
	Power factor (Typ.)	≥0.5
	Efficiency (Typ.)	≥82%
	AC Current (Typ.)	0.23A/230VAC
	Inrush Current(Typ.)	70A/230VAC
	Leakage Current	0.25mA/240VAC
	No Load Power Consumption	0,15W

PROTECTION	Over Current	110 ÷ 140% of rated current Output load state sampling auto-recovery after fault condition is removed
	Over Voltage	120 ÷ 150% of rated voltage Output voltage bounce repeatedly re-start after fault condition is removed
	Short Circuit	Short circuit at power supply output sampling the output short circuit state auto-recovery after fault condition is removed
	Over Temperature	110°C ± 10°C cut-off of the output voltage. After the termination of the thermal state, return to normal operation
WORKING ENVIRONMENT	Working Temp.	-20 ÷ +45°C
	Working Humidity	45 ÷ 85%
	Storage Temp., Humidity	-40 ÷ +85°C, 5 ÷ 95% RH non-condensing
	Temp. Coefficient	±0.03%/°C (0 ~ 60°C)
SAFETY & EMC	Safety Standards	EN61347-1 EN61347-2-13 EN 62493
	Withstand Voltage	>3,75kVAC
	EMC Immunity	EN61547
	EMC Emission	EN55015
	Harmonic Current	EN61000-3-3 EN61000-3-2
OTHERS	Dimension	103 x 35.5 x 16 mm (L x W x H)
	Weight and Packing	200PCS/CTN--11.9KGS

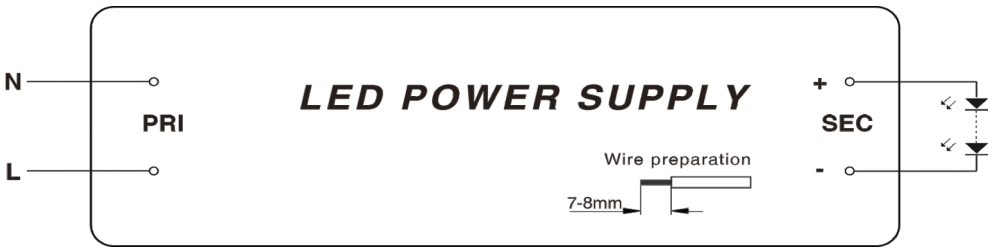
NOTE:

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 0.1µF i 47µF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
5. The power supply 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.

DIMENSIONS



WIRING DIAGRAM



EXPLANATION OF THE SYMBOLS USED ON THE DEVICE

Short- circuit proof safety transformer

II IEC protection class

The device is designed to be placed on wooden surfaces in accordance with: DIN VDE 0710-14

Protective thermal protection 110° C

Risk of electric shock

SELV — Safe low voltage output not exceeding 50V AC or 120V DC

IP — Rate of protection against access to dangerous parts inside the housing, ingress of solids and water

Independent electronic transformer: it can be installed separately outside the luminaire without any additional housing