



MORE THAN LIGHT

Leistungselektronik JENA GmbH

Stockholmer Strasse 5

D 07747 Jena

+49 36 41- 35 30 -0

+49 36 41- 35 30 70

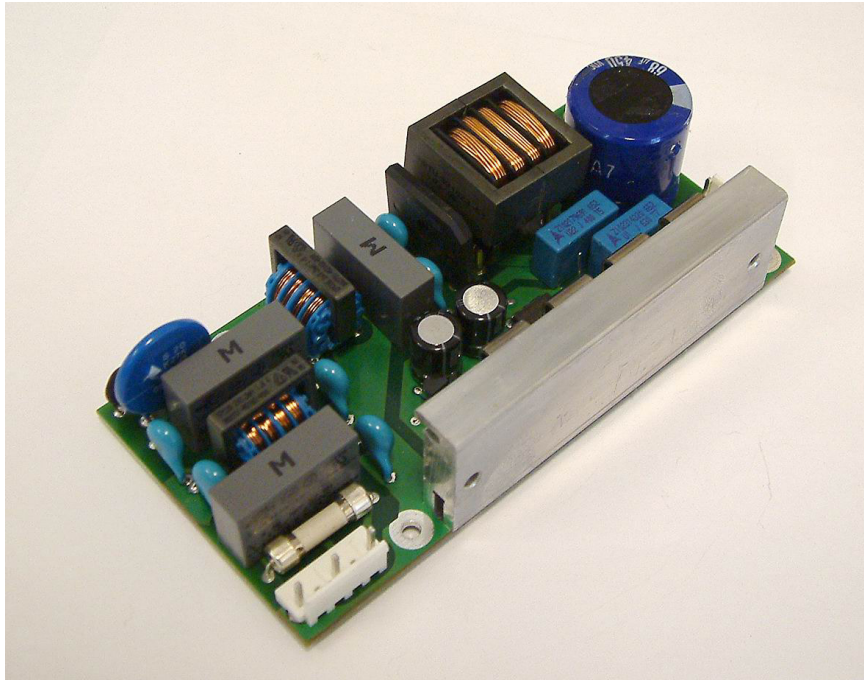
www.lej.de

PFC Module 150W

-RoHS - conform-

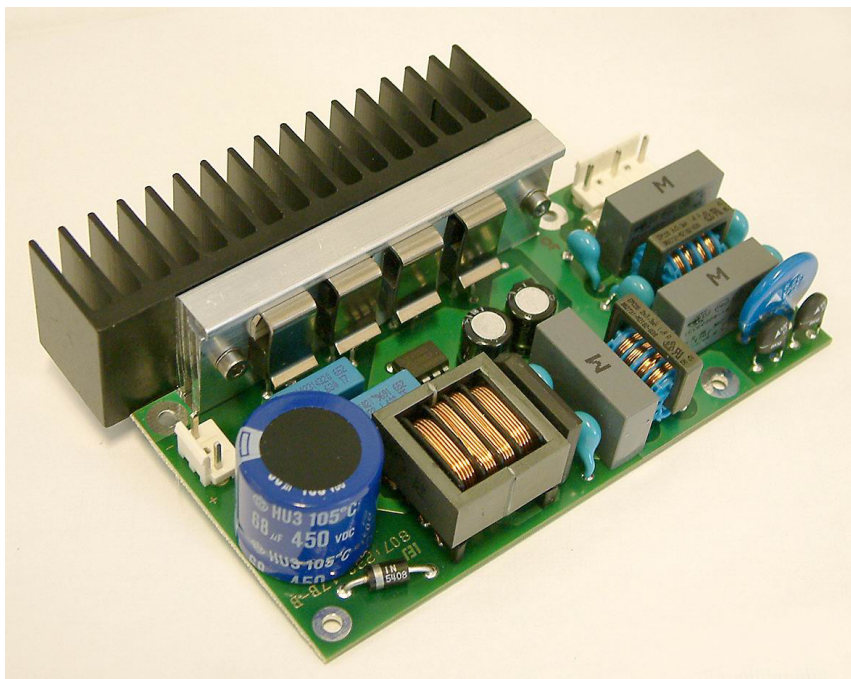
Version without additional cooling unit

Order number: LP PFC150W best. 365807:222.25



Version with additional cooling unit

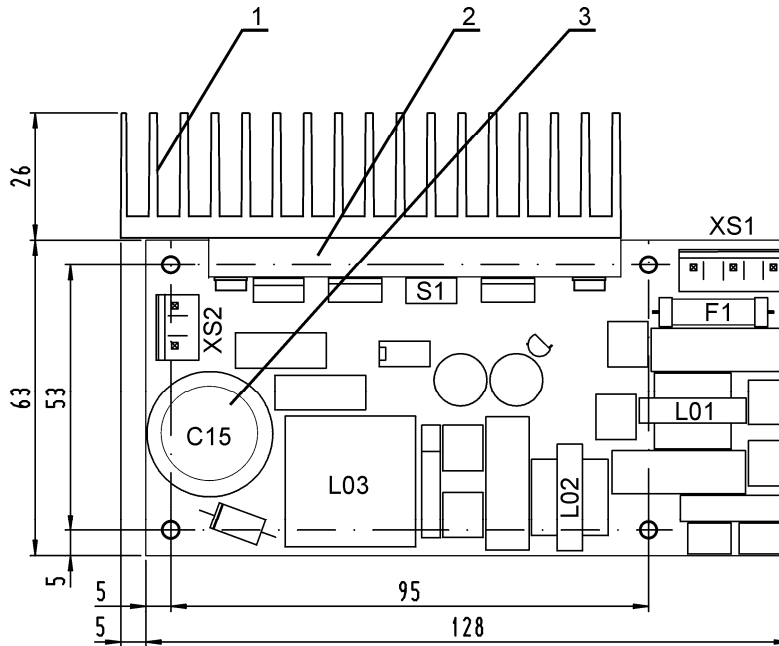
Order number: LP PFC150W kpl. 365807:231.25



Description:

The PFC Module 150W supplies power to the lamp drivers „PT VIP 2 AC/380 O1“ from Osram. The PFC Module 150W must only be used in a customer case which ensures compliance with the operating conditions, safety instructions and EMC requirements. Any other use is not intended.

If the fuse (F1) is changed, make sure to install a fuse of the same power and interruption rating (see technical specifications / line input) to avoid damage to the module and connected devices and injury of the user.



- 1 - Additional cooling unit (only with 365807:231.25 / longer cooling fins available on request)
- 2 - Cooling unit on the pcb
- 3 - Nameplate
- S1 Overtemperature guard (thermal switch)
Switching temperature: $t = 80^{\circ}\text{C}$

Maximum component temperatures:

- C15 80°C
- L01 80°C
- L02 80°C
- L03 90°C

Assembly hole diameter = 3,4 mm

Tolerance, all dimensions: ± 0.1 mm

Figure 1: PFC Module 150W

Technical specifications:

Transport and storage:

(in packaged condition)

Permitted ambient temperature -20 bis 85°C

Permitted relative humidity 10 bis 90 %, non-condensing

Dimensions (length x width x height)

Version without additional cooling unit (365707:222.25) 128 mm x 63 mm x 33 mm

Version with additional cooling unit (365807:231.25) 133 mm x 89 mm x 33 mm

Weight

Version without additional cooling unit (365707:222.25) approx. 210 g

Version with additional cooling unit (365807:231.25) approx. 280 g

Installation:

Assembly hole diameter	3.4 mm
Hole pattern for fastening the module	see Figure 1
Hole pitch for external cooling unit (only for 365807:222.25)	73.8 mm

Cooling:

Forced cooling required (min. 1 m/s; air flows through the fins of the cooling unit), in versions without additional cooling unit, an external heat sink (e.g., a cooling unit) should be installed at the mounting points of the cooling device on the printed circuit board Figure 1[2]; the cooling unit on the printed circuit board (Figure 1[2]) is connected to PE. The maximum components temperatures in Figure 1 must not be exceeded.

Operating data:

Use	together with higher-level device
Altitude	max. 2000 m above sea level
Permitted ambient temperature (in service)	0 to 50°C
Permitted relative humidity (in service)	10 to 90 %, non-condensing
Protection class	I
Protection type	IP00 (EN 60529)

EMC:

Radio interference emission (line-bound)	EN 61326 (class B)
Noise immunity	EN 61326 annex A
Voltage fluctuation, flicker	EN 61000-3-3
Harmonic currents	EN 61000-3-2

The product complies with the requirements of EC directive 89/336/EEC and the EMC legislation dated 18 September 1998.

Electrical safety:

complies with	EN 61010-1:2002
Degree Pollution severity	2
Electric isolation:	
Mains – PE	1.5 kV
Mains output	none

Mains input:

Mains voltage	100 to 240 VAC (±10%)
Power consumption	1.8 to 0.7 A
Mains frequency	50 to 60 Hz
Fuses	T3 15 A; switching capacity H

(Supplier: Schurter; series SPT 5x20 Pigtail)

Power consumptionmax. 175 VA

Power conversionmax. 25 VA

Plug connector (XS1):

Type B5P-VH (supplier: JST)

Pin configuration

Pin 1 L U_{in}

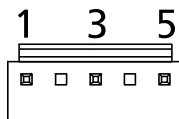
Pin 2 n.c.

Pin 3 N U_{in}

Pin 4 n.c.

Pin 5 PE

View (top view):



Output:

Output voltage380 VDC (+10/-20 V)

Output current..... 0.4 A

Output ripple20 V_{pp}

Short-circuit resistance not short-circuit resistant

Short-circuit resistance (output to PE)..... not short-circuit resistant

Plug connector (XS2):

Type B3P-VH (supplier: JST)

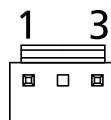
Pin configuration

Pin 1 U_{out}

Pin 2 n.c.

Pin 3 - U_{out}

View (top view):



Protection functions:

Overtemperature guard Thermal switch S1 switches off the module if the temperature of 80°C (±5°C) is obtained. The module switches on again after cooling.

Nameplate:

Location see Figure 1

Stand: 20071106