

DATASHEET

LEDEATOR® 12,5Vdc 52W

P/N: 020204F021



Life and Nature

LEDEATOR® 12,5Vdc 52W
P/N: 020204F021
R04 - V20240604



Review control

Date	Review Nº	Modification
12/04/2019	00	Initial
09/05/2019	01	The warranty was changed of two to five years
15/03/2024	02	Changed mechanical design of the product.
29/05/2024	03	Changed mechanical drawing and table
04/06/2024	04	Changed mechanical drawing

LEDEATOR® 12,5Vdc 52W

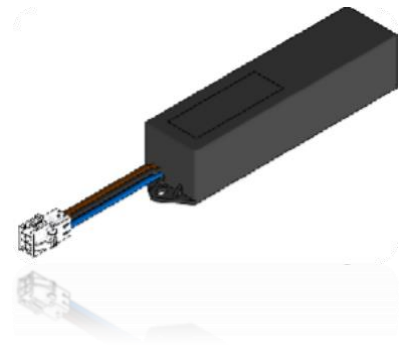
P/N: 020204F021

R04 - V20240604



Description

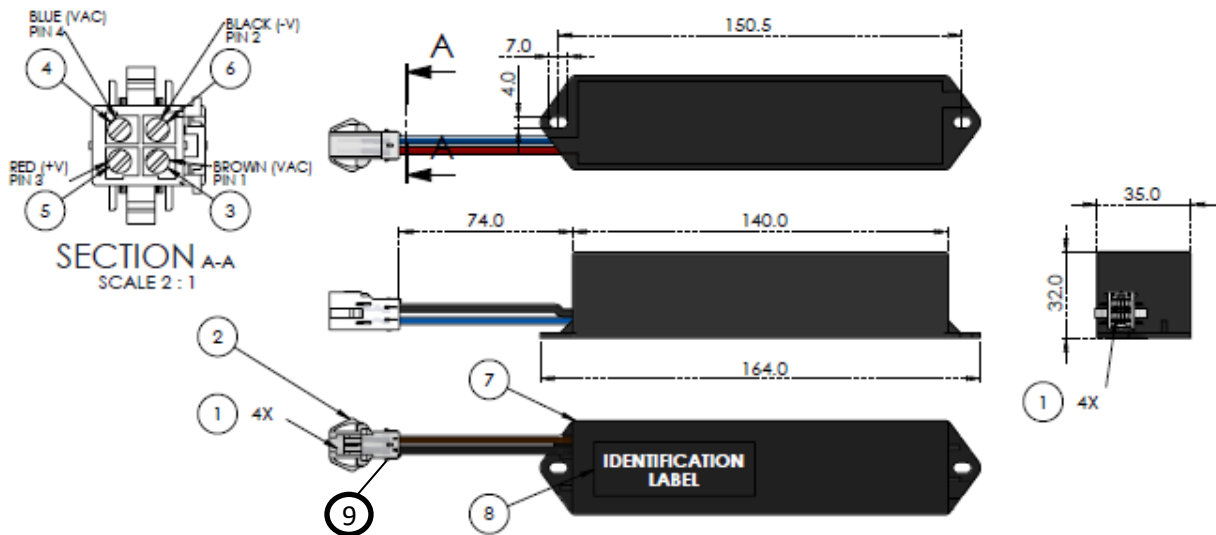
Ledeator® isolated, constant voltage, input voltage from 90 to 265Vac, output voltage 12,5Vdc, maximum output current 3,5A, maximum power consumption 52W, maximum power output 43,75W, with plastic case and electrical connection via connectors.



General data

Application:	Led bars, led strips and led boards 12Vdc until 3,5A
Index of protection:	IP 53
Electrical connection:	Connectors

Mechanical data



1	Terminal power double lock, tinned brass – TYCO 177917-1 or similar
2	TYCO 177908-1 4-way connector with lock or similar
3	Wire, brown, 20AWG, 105°, 600V, V1, 74±20mm, input
4	Wire, blue, 20AWG, 105°, 600V, V1, 74±20mm, input
5	Wire, red, 20AWG, 105°, 600V, V1, 74±20mm, positive output
6	Wire, black, 20AWG, 105°, 600V, V1, 74±20mm, negative output
7	Case, gray color pantone cool gray 10C, PP, V2
8	Identification label according O2 Led drawing
9	Lock
Note:	The PCB must be protected and encapsulated with epoxy resin high density, silicone coating or similar

LEDEATOR® 12,5Vdc 52W
P/N: 020204F021
R04 - V20240604



Electrical data

Input voltage	90 to 265Vac
Input frequency	50/60Hz
Maximum power consumption	52W
Power factor	> 0,3 @ 220Vac
Efficiency	> 80% @ 220Vac
THD	< 200% @ 220Vac
Output voltage range	12,5 ±0,5Vdc
Maximum output current	3,5A
Maximum output ripple voltage	200mVpp
Maximum output power	43.75W
Protection against "IN-RUSH" current	Yes - Use of NTC of 20Ω
Input output isolation	Isolated
Hi pot power supply to case	> 1500Vac, 2s, 0,5mA
Hi pot input to output	> 500Vac, 2s, 0,5mA
EMI protection	No
Short circuit protection	Yes the device must not damage after 20s short circuited
Over voltage protection	yes
Soft start	no soft start

Temperature

Over temperature protection	not applicable
Working temperature	0°C to + 50°C
Storage temperature	-20°C to + 60°C

Reliability

Life time	50000 hours
Supply failure rate	800 PPM
MTBF	Modelo Handbook
Warranty	5 years