

# 90519044

Bits2Power® HALOGEN DRIVER

## Product description

- 1 Channel Halogen light Driver •
- 0 100% dimming •
- Thermal protection •
- 3 Year Warranty •
- CE certified •
- IP67

# **Applied Standards**

EN55022 EN55024

# **Technical notes**

Dimensions	156x38x25mm	
Weight	170gr.	
Housing	Polycarbonate	
Color	White (RAL9003)	

# Ordering data

Туре	Article number
1-channel 12V	90519044-48D12420W67
1-channel 24V	90519044-48D24210W67

# $^{\textcircled{0}}$ Tolerance of 5%

- <sup>©</sup> Nominal output voltage is # of LEDS x LED forward voltage <sup>③</sup> Tolerances of 5% and for each circuit
- Percentage of output voltage
- $\ensuremath{^{\ensuremath{\mathbb{S}}}}$  To be determined





# **Electrical Characteristics**

Input voltage range ①	30 48Vdc
Efficiency	93%
Output voltage range ③	see technical details
Output current max <sup>3</sup>	see technical details
Output power max	50 W
Output dimming range	0-100%

#### Protections

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Undervoltage lockout	@ Vin < 20Vdc
Short circuit protection	Input current sense limit
Reversed polarity	Positive 🗇 Negative
Reversed connection	Input 🗇 Output
Overheating Protection	70°C Output derating

# Connections

Connections				
Input voltage	Positive	Orange	AWG20, 250mm	
	Negative	Black	AWG20, 250mm	
Output voltage	Positive	Red	AWG20, 250mm	
	Negative	Black	AWG20, 250mm	

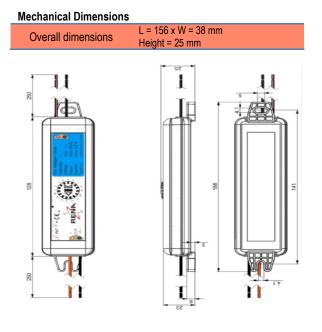


# **Technical details**

Model		90519044-48D12420W6	90519044-48D24210W67	
Output	DC voltage Range	0-1,2 12 V	0-1,2 24 V	
	Rated current	4,2 A	2,1 A	
	Maximum Power	50 W	50 W	
	Voltage tolerance	±5 %	±5 %	
Input	DC voltage Range	30 48 V	3048 V	
	Efficiency(full load)	93 %	95 %	
	Standby Power	1 mW	1 mW	

All Models		
Protection	Short Circuit	Recovers automatically after removing short
	Over Current	Input protected by unrecoverable fuse
	Over Voltage	Input protected by TVS diode
	Over Temperature	70°C (Output derating)
Safety & EMC	Withstand Voltage	I/P-O/P: 0,5kV
	Isolation Resistance	I/P-FG: >100Ω / 500VDC / 25°C / 70% RH
	EMI	EN55022 (CISPR22)
	EMS IMMUNITY	EN55024, EN61000-4-2, 3, 4, 5, 6, 11





# Thermal Characteristics

The LED driver must operate under proper environmental conditions and the operating ambient air temperature must NOT exceed the maximum given temperature.

For an optimal lifetime performance the LED driver must be placed in an environment where a sufficient heat transport is guaranteed. The heat transport is done by natural convection. It's not recommended to expose the module to direct sunlight or any other heat source.

#### Environmental characteristics

-20 – +70°C	
-20 – +50°C	
10-95% RH	
IP67	
	-20 – +50°C 10-95% RH

# Tc point

For an optimal lifetime performance the Tc point of the device must never exceed [ <sup>(S)</sup>] degrees Celsius.

The maximum value must be determined under operating conditions in a thermally stable state and under worst-case conditions for the current application

### Installation and Safety Information

Installation must be carried out under observation of the relevant regulations and standards. The following advice must be followed:

- See PDC600 controller manual for system installation details.
- The device contains components that are sensitive to electrostatic discharge and may only be installed in the factory and on site if appropriate EOS/ESD protection measures have been taken.
- Use wire size of minimum AWG 20 for connecting the B2P device.
- Please ensure the correct polarity of the leads.

• For outdoor or damp locations, be aware of the IP classification. All above specifications must be met in order to qualify for the 3 year warranty.

#### Packaging

Box size (mm)	288x207x66 mm
Quantity each Box	12
Quantity each layer	12
Layer each box	1
Weight each box (kg)	2,1 kg

