

CIS-DR series (0.35 – 2.8 A)

Industrial LED-Driver



- Specially designed for solar street lights and applications in demanding environments
- Robust fully protected case (IP67)
- Buck/boost converter for a wide LED string voltage range, for all standard industry LED blocks
- External temperature sensor
- Soft-start enhanced design for a longer LED lifetime
- Linear or true-color PWM LED dimming
- Analog & PWM dimming inputs
- Small size fits in most applications

The Phocos CIS-DR is perfect for a variety of lighting applications like solar street lights, message boards, flasher or warning systems. It is best adapted for controlling systems, traffic and the oil or gas sectors, just to name a few. The CIS-DR drives LED strings over a wide voltage range (2 - 54 V). The LED current is selectable in three stages: low, medium and high current (mA) by a rotary switch, for each product size (LC, MC, HC).

Three product sizes with three current levels

Low Current (LC)	350 mA	550 mA	700 mA
Medium Current (MC)	1,050 mA	1,400 mA	1,750 mA
High Current (HC)	2,100 mA	2,450 mA	2,800 mA

The CIS-DR has analog and PWM dimming inputs to control the brightness of connected LED lights in either linear mode or with PWM output for professional true color dimming. The external temperature sensor limits maximum LED block operating temperature, thus extending LED lifetime. The LED driver also enables a soft start so that the LEDs are

turned on progressively, extending their lifetime and lowering the maintenance costs.

The CIS-DR is especially suited to operate with our CIS charge controller's series (e. g. CIS-N and CIS-MPPT). It will work with any other charge controller that provides the appropriate dim signals.

Thanks to the timer and dimmer functions of the CIS series of charge controllers individual and effective lighting concepts can be realized. For example the implemented night/day detection allows the light to be automatically switched on or off at sunrise or sunset. System designs can be configured effectively, leading to reduced energy and investment costs.

The fully encapsulated housing (IP67) allows the installation of this product even in humid environments.

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Type	CIS-DR-LC	CIS-DR-MC	CIS-DR-HC
Supply voltage range	11 to 35 V		
Max. input current	3.5 A (internal limited)	6.5 A (internal limited)	
Max. output current	350 mA, 550 mA, 700 mA	1,050 mA, 1,400 mA, 1,750 mA	2,100 mA, 2,450 mA, 2,800 mA
Max. output voltage	54 V		
Undervoltage protection:			
LVD level	10 V		
Reconnect voltage level	11 V		
Max. input supply voltage	35 V		
Self-consumption	< 10 mA		
Grounding	Negative grounding		
Temperature range:			
Storage temperature	-40 to +60 °C		
Operating temperature	-40 to +50 °C		
Max. altitude	4,000 m above sea level		
Length of conductors	50 cm		
Dimensions (W x H x D)	88.5 x 112 x 41.4 mm		
Weight	625 g		
Wire cross section	LED string: 2.5 mm ² , dimm control: 0.2 mm ² , power supply: 2.5 mm ²		
Type of protection	IP67		

Technical data dimming input	CIS-DR-LC	CIS-DR-MC	CIS-DR-HC
Dimming options	Linear, PWM		
PWM dimming input control voltage	Voltage range: 2 – 10 V; PWM frequency range: 100 – 600 Hz		
Linear input voltage range	0 – 10 V		
Input current	0 – 100 µA		

Technical data dimming output	CIS-DR-LC	CIS-DR-MC	CIS-DR-HC
Dimming options	Linear (high efficiency), PWM (true-color-dimming) 400 Hz		