



CIS-DR Series

Industrial LED Driver



CIS-DR Series (0.35 – 2.8 A)

Will drive all standard industry LED blocks

Perfect for

- Solar streetlights and traffic lights
- Message boards and billboards
- Solar airfield lighting
- Navigation buoys and nautical lanterns
- Security systems



Product Introduction



- The CIS-DR is available in three models: low current (LC), medium current (MC), and high current (HC); each model has three selectable current capacities (in 350 mA steps) to choose from, allowing LED strings in a wide range of currents and voltages (3 - 54 V) to be powered.
- Integrated analog and PWM dimming inputs are valuable functions of the CIS-DR driver, allowing controlled linear LED or PWM dimming in order to experience true color.
- An external temperature sensor limits the maximum operating temperature of the LED block, thereby extending its lifetime.
- Suitable for installation and use in almost all environments due to the water-resistant, encapsulated housing (IP67).

Low Current

CIS-DR-LC
350 / 550 / 700 mA



Medium Current

CIS-DR-MC
1050 / 1400 / 1750 mA



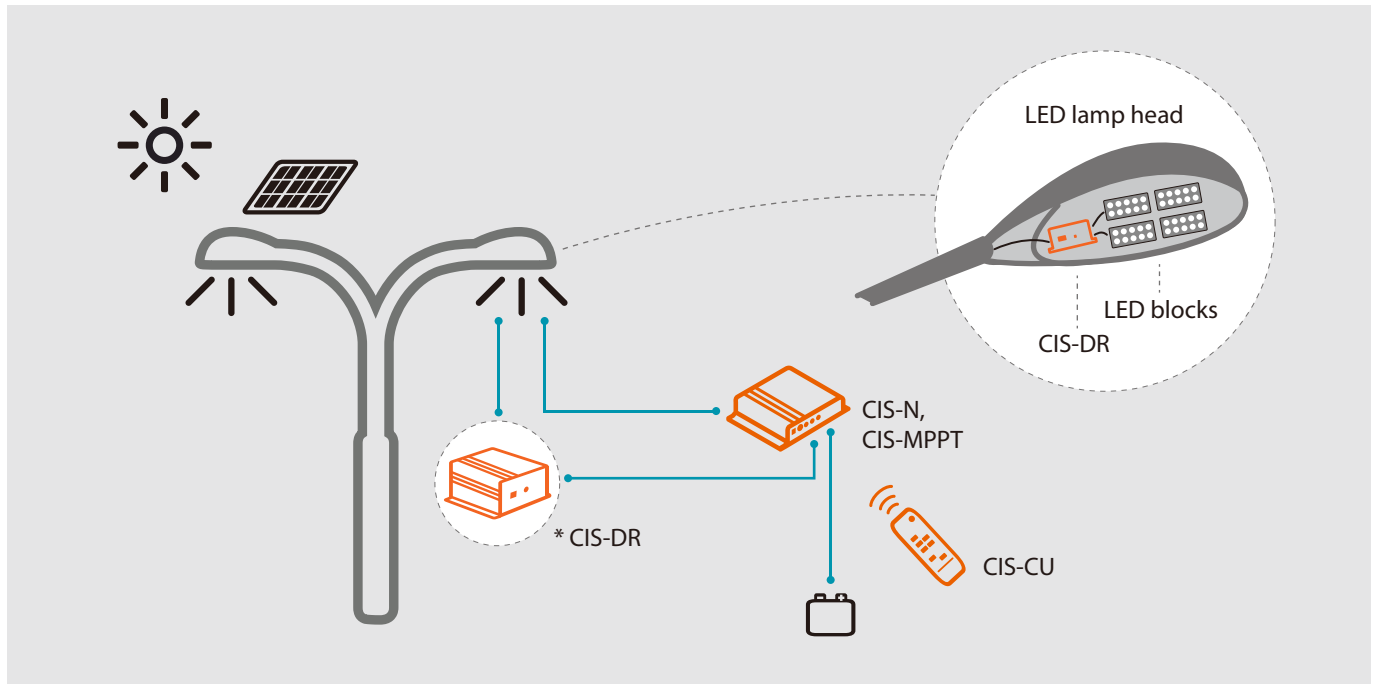
High Current

CIS-DR-HC
2100 / 2450 / 2800 mA



System Drawing

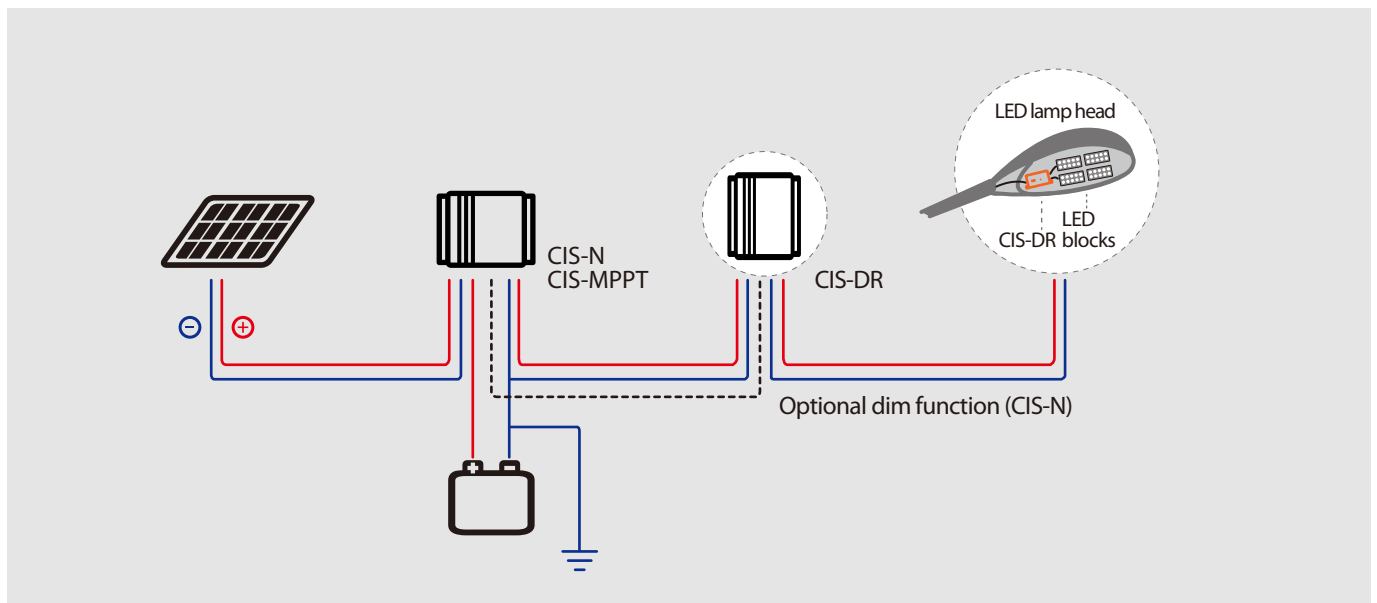
LED Driver in Solar Street Light Applications



* The CIS-DR drives LED strings over a wide voltage range (3-54 V).

System Drawing

Wiring



Technical Data

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, 550, 700 mA	1050, 1400, 1750 mA	2100, 2450, 2800 mA
Max. output voltage	54 V		
Under voltage 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: 1.5 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		

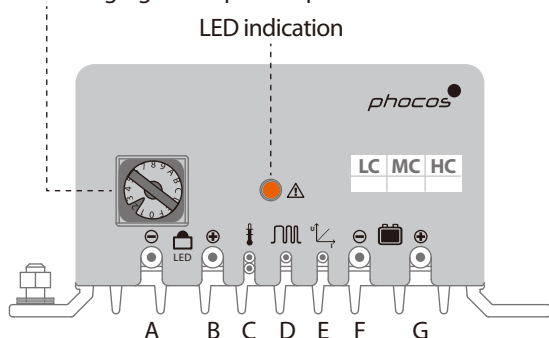
Technical data dimming output	CIS-DR-LC	CIS-DR-MC	CIS-DR-HC
Dimming options	Linear (high efficient), PWM (true-color-dimming) 400 Hz		

LED temperature compensation:

External temperature sensor enables CIS-DR to measure LED temperature. At temperatures over 80 °C, CIS-DR reduces LED current by 10% per 1 °C.

Connection

Rotary switch:
For changing dim input/output.



Cable	Function	Diameter / Cross section	Color
A	Negative wire LED-output	1.5 mm ²	blue
B	Positive wire LED-output	1.5 mm ²	yellow
C	Temperature sensor for LED	Twin wire with sheet metal attachment fixtures	black
D	PWM-dim input	0.2 mm ²	white
E	Analog-dim input	0.2 mm ²	red
F	Negative terminal battery / load output charge controller	2.5 mm ²	black
G	Positive terminal battery / load output charge controller	2.5 mm ²	red



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