## MM CIS-N-MPPT-LED (IS A)

Industrial MPPT Solar Charge Controller w/ LED Driver



# phocos



**Product Introduction** 

The CIS-N-MPPT-LED is a multi-functional solar charge controller with built-in LED boost driver for solar outdoor lighting systems. Equipped with a widely-adjustable automatic light timer that uses solar input voltage to determine day and night, the CIS-N-MPPT-LED adjusts to seasonal changes. In addition, the built-in LED driver features timed and low-voltage dimming of LED strings.

Like all CIS family products, CIS-N-MPPT-LED has been designed for the harshest industrial environments and features a rugged, fully potted (IP68) enclosure that prevents damage from dust, insect and water ingress. The infrared communication feature allows for full-control of light timer settings and LVD customization via remote control accessory (CIS-CU) and full adjustment of the battery charge regime and access to 2 years of system data via USB adaptor (MXI-IR) and our free PC software (CISCOM).

#### **Product Features**

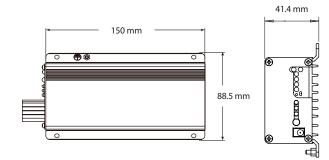
- Three functions in one: MPPT charge controller + light timer + LED driver
- Works in 12 or 24 V systems
- Up to 30% additional power yield compared to conventional • Programmable for LFP batteries **PWM** controllers
- IP68 ingress protection
- Compatible with 60 cell PV modules

### **Driver Data**

- Input for motion detector (PIR)
- Infrared-programmable load timing feature with dimming, which is ideal for lighting systems
- 2 year datalogging memory
- with a BMS using CISCOM in expert mode
- Compatible with Lithium batteries (no BMS communication)

Туре	CIS-N-MPPT-LED
Output Voltage	15-69 V (12 V), 30-69 V (24 V)
Nominal Output Current per String	350 - 3,500 mA
Max. Load Power	100 W / 200 W
Dimming Level	0-100 % (1.7 % steps)
PIR-Input	4-30 V with respect to battery negative, ≥0.7 mA; limited protection up to 50 V





#### **Technical Data**

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ax. Usable PV Power 225 ax. PV Array Power 250 mperature Compensation -25 r	/ 21.0 V	
ax. PV Array Power 250 mperature Compensation -25 r	/ 85 V	
mperature Compensation -25 r	W / 450 W	
	Wp / 500 Wp	
le Self-Consumption <10	mV/K (12 V); -50 mV/K (24 V)	
	<10 mA	
rounding Com	Common Negative	
mbient Temperature -40 t	to +60 °C	
ax. Altitude 4,00	0 m above sea level	
ttery Type Lead LFP	acid (gel, AGM, flooded), Lithium,	
atalogger 2 ye	ars	
ire Length 20 c	m / 7.9 in	
ire Cross Section 2.5 r	mm² (AWG 13)	
mensions (WxHxD) 88.5	x 150 x 41.4 mm / 3.5 x 6 x 1.6 in	
eight 0.78	kg / 1.72 lbs	
gress Protection IP68	IP68 (1.5 m, 72 h)	
ertificates CE c	ompliant, RoHS compliant	
arranty 5 ye		