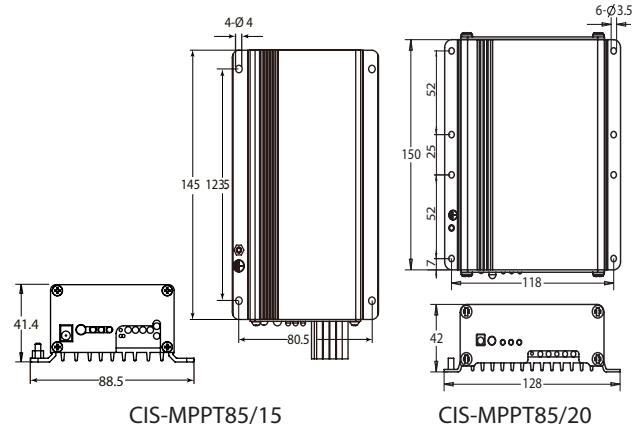




Technical Drawing



Product Introduction

Off-grid PV systems exposed to extreme weather/environmental conditions impose increased risk of damage to the power electronics. In order to assure reliable battery protection under such conditions, Phocos ddcapsulated MPPT charge controller range to prevent corrosion: The CIS-MPPT Series solar charge controllers.

The CIS-MPPT series include convenient and advanced lighting control, which allows you to decide whether you want the automatic lighting control with LED dimming to be either time or low-voltage activated.

Product Features

- Infrared-programmable load timing feature with dimming ideal for lighting systems
- 2 year log of system performance data accessible via MXI-IR accessory, PC software (CISCOM)
- Up to 98% power conversion efficiency
- 3-stage I/V curve sweep algorithm increases battery lifespan
- Anodized aluminum extrusion with built-in heat dissipation
- Fully encapsulated design prevents damage from corrosion, insects and/or dust.
- Works in 12 or 24V battery systems (automatic battery voltage detection)
- Compatible with 60-cell modules

Optional Accessories

CIS-CU

- Infrared remote control

MXI-IR

- Interface for CIS communication with computer USB and IR interface

Technical Data

Type	CIS-MPPT-85/15	CIS-MPPT-85/20
System voltage	12/24V auto recognition	
Max. charge/load current	15A	20A
Max PV Power Input	250W/12V, 500W/24V	400W/12V, 800W/24V
Float charge	13.8/27.6V (77 °F/25°C)	
Main charge	14.4/28.8V (77 °F/25°C), 0.5 h (daily)	
Boost charge	14.4/28.8V (25°C), for 2 h; Activation: battery voltage < 12.3/24.6V	
Equalization charge	14.8/29.6V (25°C), for 2 h; Activation: battery voltage < 12.1/24.2V	
Max. panel voltage	50V (12V), 85V(24V)	85V
Idle self-consumption	15mA(12V), 8mA(24V)	
Deep discharge protection:	LVD: 11-11.9V (12V system); 22-23.8V (24V system)	
Cut-off voltage	SOC: 11-12.02V (12V system); 22-24.04V (24V system)	
Reconnect level	12.8V (12V system)/25.6V (24V system)	
Dimming value	0-100% output value	
Temperature compensation	-25.2 mV/K at 12V; -50 mV/K at 24V	
Datalogging	2 years	
Battery type	Lead acid (GEL, AGM, flooded), adjustable	
Grounding	Negative grounded	
Ambient temperature	-40 to +140 °F (-40 to +60 °C)	
Weight	1.72 lbs (0.78 kg)	2.31lbs (1.05 kg)
Dimensions (WxHxD)	88.5 x 150 x 41.4 mm	130 x 150 x 45 mm
Type of protection	IP 68 (1.5, 72h)	
Certification	CE	
Warranty	5 years	