

CIS-MPPT (15 A)

Industrial Solar Charge Controller



- Outstanding system efficiency (max. 98%) thanks to integrated Maximum Power Point Tracker technology (MPPT)
- Maximizes power output & reduces system costs
- Encapsulated case for IP68 full protection and increased lifespan
- Timer and dimming for flexible lighting control
- Auto-protect function: two voltage disconnects extend system operation time and increase reliability
- Can be programmed via CIS-CU IR remote control unit
- Smallest size in its power class – fits everywhere
- Data logger via MXI-IR and CISCOM software
- Compatible with 60-cell PV modules

With innovative maximum power point tracking technology, this Phocos MPP tracker ensures maximum performance and yield from all types of solar systems – year-round, in any weather, and in any environment.

The use of MPPT technology can contribute to a considerable boost in energy output from PV modules (up to 30% more). At the same time, the temperature-compensated, three-stage I-U curve charge control algorithm significantly extends battery lifespan.

The integrated data logger (2 years) provides an insight into system operation, displaying important information such as system status, voltage, current, etc.

PV panels are primarily designed for grid connected systems (60 cell modules). The CIS-MPPT charge controller optimally charges 12 V batteries with one (1) 60 cell module and 24 V batteries with two (2) 60 cell modules wired in series.

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Type	CIS-MPPT 85/15
System voltage	12/24 V, auto recognition
Max. charge current/load current	15 A
Max. PV input power	230 W @ 12 V, 460 W @ 24 V
Float charge	13.8/27.6 V (25 °C)
Main charge	14.4/28.8 V (25 °C), 30 min. (daily)
Boost charge	14.4/28.8 V (25 °C), 2 h Activation: battery voltage < 12.3/24.6 V
Equalization charge	14.8/29.6 V (25 °C), 2 h Activation: battery voltage < 12.1/24.2 V (at least every 30 days)
Deep discharge protection:	
Cut-off voltage	11 – 12 V/22 – 24 V by SOC
Reconnect level	12.8/25.6 V
Overvoltage protection	15.5/31.0 V
Undervoltage protection	10.5/21.0 V
Min. operating voltage	9 V
Max. PV voltage	85 V
Min. PV voltage	17/34 V
Temperature compensation (Charge voltage)	25 mV @ 12 V 50 mV @ 24 V
Idle self-consumption	< 10 mA
Grounding	Common positive pole (for grounding purposes)
Ambient temperature	–40 to +60 °C
Max. altitude	4,000 m above sea level
Battery type	Lead acid (GEL, AGM, flooded), adjustable
Adjustment range:	
Evening/morning hours	0 – 15 h / 0 – 14 h
Night detection	2.5 – 10 V / 5.0 – 20.0 V (adjust step 0.5/1.0 V)
Day detection	Night detection + 1.5 V/3.0 V
Data logger	2 years
Connection wire length	20 cm
Wire cross section	2.5 mm ²
Dimensions (W x H x D)	88.5 x 150 x 41.4 mm
Weight	780 g
Type of protection	IP68 (1.5 m, 72 h)
Technical data dimming output	CIS-MPPT 85/15
Dimming value	0 – 100% output power (adjust step 10%)
Dimming output voltage	0 – 10 V relative to battery minus
Impedance	1,000 Ohm