

## ECO-T-MPPT (16 A)

MPPT Solar Charge Controller



- Outstanding system efficiency (max. 98%) thanks to integrated Maximum Power Point Tracking technology (MPPT)
- Three-stage charging algorithm with integrated temperature compensation
- Maximizes power output & reduces system costs
- IP68 casing, IP21 terminals
- Auto-protect function: voltage disconnect increase reliability
- Compatible with 60 cell PV modules
- 12/24 V DC systems

With innovative precision maximum power point tracking technology, this Phocos charge controller ensures maximum performance and yield from all types of solar systems – year-round.

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.

PV panels that are primarily designed for grid connected systems (60 cell modules) can now also be used in 12 and 24 V DC systems. The ECO-T-MPPT charge controller optimally charges 12 V batteries with one (1) 60 cell module and 24 V batteries with two (2) 60 cell modules series wired.

Three LED indications: charge status, SOC or LVD, overload/short circuit at load.

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Type	ECO-T-MPPT 85/16
System voltage	12/24 V auto recognition
Max. charge current/load current	16 A
Max. PV input power	250 W @ 12 V, 500 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
Deep discharge protection:	
Cut-off voltage	11 – 12 V/22 – 24 V
Reconnect level	12.8/25.6 V
Overvoltage protection	15.5/31.0 V
Undervoltage protection	10.5/21.0 V
Max. PV voltage	85 V
Min. PV voltage	17/34 V
Battery temperature compensation	-25 mV/K at 12 V
(Charge voltage)	-50 mV/K at 24 V
Idle self-consumption	15 mA at 12 V 8 mA at 24 V
Grounding	Positive pole grounded
Ambient temperature	-40 to +60 °C
Max. altitude	4,000 m above sea level
Battery type	Lead acid (GEL, AGM, flooded)
Maximum wire cross section	16 mm <sup>2</sup>
Dimensions (W x H x D)	147 x 90 x 31 mm
Weight	1,100 g
Type of protection	IP68 casing, IP21 terminals