

## ECO (10 A)

Solar Charge Controller



- Electronically regulated charging mode: boost, main and float charge
- Deep discharge protection
- PWM series regulation (PV panel is not short-circuited)
- Integrated temperature compensation
- Fully electronically protected against: panel surge voltage, wrong polarity (panel or battery), overload and short circuit at load
- Three LED indications: Charge Status, SOC, LVD, Overload/Short Circuit
- IP68 protection

The new version of the ECO solar charge controller series is especially designed for small solar systems requiring low-battery disconnect. The ECO series is fully electronically protected. Three LEDs display charging progress,

battery SOC and load status (load disconnect).

Rural electrification systems are the typical applications for this product. It is a perfect solution for cost-sensitive systems.

Type	ECO 10
System voltage	12 V
Max. charge/load current	10 A
Float charge	13.8 V(25 °C)
Main charge	14.4 V (25 °C), 0.5 h (daily)
Boost charge	14.4 V (25 °C), 2 h Activation: battery voltage < 12.3 V
Deep discharge protection, Cut-off voltage	11.0 V
Overvoltage protection	15.5 V
Undervoltage protection	10.5 V
Max. PV panel voltage	30 V
Temperature compensation	-4 mV/K
Idle self-consumption	4 mA
Grounding	Positive grounding
Ambient operating temperature	-40 to +60 °C
Max. altitude	4,000 m above sea level
Battery type	Lead acid (GEL, AGM, flooded)
Wire cross section	2.5 mm <sup>2</sup>
Weight	110 g
Dimensions (W x H x D)	87 x 51 x 16 mm
Type of protection	IP68

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