

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

Phoco's new solar charge controller, ECO, is especially designed for small solar systems requiring low-battery disconnect. The ECO is fully electronically protected and offers a LED display showing charge and load status.

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	-4.2 mV/cell*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 ²
Weight	110 g
Dimensions (W x H x D)	87 x 51 x 16 mm
Type of protection	IP68

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