

# Ecoterm (14 A)

Solar Charge Controller



- Electronic controlled charging: boost and float charge
- Deep discharge protection
- PWM series regulation (PV panel will not be 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
- Common positive
- IP68 (casing) IP21 (contacts)

The Ecoterm solar charge controller has been especially designed for small solar systems requiring low-battery disconnect. 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	Ecoterm 14
System voltage	12 V
Max. charge/load current	14 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/K (2 V cell)
Idle self consumption	4 mA
Grounding	Positive grounded
Ambient temperature	-40 to +60 °C
Max. altitude	4,000 m above sea level
Battery type	Lead acid (GEL, AGM, flooded)
Max. wire cross section	10 mm <sup>2</sup>
Dimensions (W x H x D)	100 x 61 x 20 mm
Weight	160 g
Type of protection	IP68 (casing), IP21 (contacts)

Datasheet\_Ecoterm\_1/1\_e\_2015-02-12\_Subject to change without notice