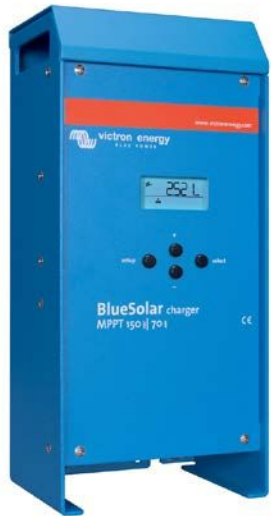


BlueSolar Charge Controller MPPT 150/70 & 150/85

www.victronenergy.com



**Solar Charge Controllers
MPPT 150/70 and 150/85**

PV voltage up to 150 V

The BlueSolar MPPT 150/70 and 150/85 charge controllers will charge a lower nominal-voltage battery from a higher nominal voltage PV array.

The controller will automatically adjust to a 12, 24, 36, or 48V nominal battery voltage.

Ultra-fast Maximum Power Point Tracking (MPPT)

Especially in case of a clouded sky, when light intensity is changing continuously, an ultra-fast MPPT controller will improve energy harvest by up to 30% compared to PWM charge controllers and by up to 10% compared to slower MPPT controllers.

Advanced Maximum Power Point Detection in case of partial shading conditions

If partial shading occurs, two or more maximum power points may be present on the power-voltage curve.

Conventional MPPT's tend to lock to a local MPP, which may not be the optimum MPP.

The innovative BlueSolar algorithm will always maximize energy harvest by locking to the optimum MPP.

Outstanding conversion efficiency

Maximum efficiency exceeds 98%. Full output current up to 40°C (104°F).

Flexible charge algorithm

Several preconfigured algorithms. One user programmable algorithm.

Manual or automatic equalisation.

Battery temperature sensor. Battery voltage sense option.

Programmable auxiliary relay

For alarm or generator start purposes

Extensive electronic protection

Over-temperature protection and power derating when temperature is high.

PV short circuit and PV reverse polarity protection.

Reverse current protection.

CAN bus

To parallel up to 25 units, to connect to a ColorControl panel or to connect to a CAN bus network

| BlueSolar Charge Controller | MPPT 150/70 | MPPT 150/85 |
|--|---|---|
| Nominal battery voltage | 12 / 24 / 36 / 48V Auto Select | |
| Rated charge current | 70A @ 40°C (104°F) | 85A @ 40°C (104°F) |
| Maximum solar array input power 1) | 12V: 1000W / 24V: 2000W / 36V: 3000W / 48V: 4000W | 12V: 1200W / 24V: 2400W / 36V: 3600W / 48V: 4850W |
| Maximum PV open circuit voltage | 150V absolute maximum coldest conditions 145V start-up and operating maximum | |
| Minimum PV voltage | Battery voltage plus 7 Volt to start | Battery voltage plus 2 Volt operating |
| Standby power consumption | 12V: 0,55W / 24V: 0,75W / 36V: 0,90W / 48V: 1,00W | |
| Efficiency at full load | 12V: 95% / 24V: 96,5% / 36V: 97% / 48V: 97,5% | |
| Absorption charge | 14.4 / 28.8 / 43.2 / 57.6V | |
| Float charge | 13.7 / 27.4 / 41.1 / 54.8V | |
| Equalization charge | 15.0 / 30.0 / 45 / 60V | |
| Remote battery temperature sensor | Yes | |
| Default temperature compensation setting | -2,7 mV/°C per 2V battery cell | |