



BlueSolar MPPT 150/35-100*

Charge Controller 150/35 up to 150/100 power range

A solar charger gathers energy from your solar panels, and stores it in your batteries. Using the latest, fastest technology, SmartSolar maximises this energy-harvest, driving it intelligently to achieve full charge in the shortest possible time. SmartSolar maintains battery health, extending its life. * Works with VictronConnect

FEATURES:

- Ultra-fast Maximum Power Point Tracking (MPPT)
- Outstanding conversion efficiency
- Flexible charge algorithm
- Extensive electronic protection
- Internal temperature sensor
- Real-time data display options

TECHNICAL DATA

BlueSolar Charge Controller	150/45	150/60	150/70	150/85	150/100
Battery voltage		12 / 24 / 48 (software tool needed to select 36V)			
Rated charge Current	45A	60A	70A	85A	100A
Nominal PV power, 12V 1a,b)	650W	860W	1000W	1200W	1450W
Nominal PV power, 24V 1a,b)	1300W	1720W	2000W	2400W	2900W
Nominal PV power, 48V 1a,b)	2600W	3440W	4000W	4900W	5800W
Max. PV short circuit current	50A	50A	50A	70A	70A
Maximum PV open circuit voltage		150V absolute maximum coldest conditions 145V start-up and operating maximum			
Maximum Efficiency		98%			
Self-consumption		10 mA			
Charge voltage 'absorption'		Default setting: 14,4 / 28,8 / 43,2 / 57,6V (adjustable)			
Charge voltage 'float'		Default setting: 13,8 / 27,6 / 41,4 / 55,2V (adjustable)			
Charge algorithm		multi-stage adaptive			
Temperature compensation		-16 mV / -32 mV / -64 mV / °C			
Protection		Battery reverse polarity (fuse, not user accessible) PV reverse polarity / Output short circuit / Over temperature			
Operating temperature		-30 to +60 °C (full rated output up to 40 °C)			
		95% , non-condensing			
Data communication port and remote on-off		VE.Direct (see the data communication whitepaper on our website)			
Parallel operation		Yes (not synchronized)			



SmartSolar MPPT 250/60-100*

Charge Controller 250/60 up to 250/100 power range

A solar charger gathers energy from your solar panels, and stores it in your batteries. Using the latest, fastest technology, SmartSolar maximises this energy-harvest, driving it intelligently to achieve full charge in the shortest possible time. SmartSolar maintains battery health, extending its life. * Works with VictronConnect

FEATURES:

- Ultra-fast MPPT
- Outstanding conversion Efficiency
- Flexible charge algorithm
- Extensive electronic Protection
- Internal temperature sensor
- Bluetooth Smart built-in
- Real-time data display
- VE.Direct
- Remote on-off
- Programmable relay

TECHNICAL DATA

BlueSolar Charge Controller

	250/60	250/70	250/85	250/100
Battery voltage	12 / 24 / 48 (software tool needed to select 36V)			
Rated charge Current	60A	70A	85A	100A
Nominal PV power, 12V 1a,b)	860W	1000W	1200W	1450W
Nominal PV power, 24V 1a,b)	1720W	2000W	2400W	2900W
Nominal PV power, 48V 1a,b)	3440W	4000W	5800W	4900W
Max. PV short circuit current	35A	35A	70A	70A
Maximum PV open circuit voltage (max 30A per MC4 conn.)	250V absolute maximum coldest conditions 245V start-up and operating maximum			
Maximum Efficiency	99%			
Self-consumption	Less than 35mA @ 12V / 20mA @ 48V			
Charge voltage 'absorption'	Default setting: 14,4 / 28,8 / 43,2 / 57,6V (adjustable)			
Charge voltage 'float'	Default setting: 13,8 / 27,6 / 41,4 / 55,2V (adjustable)			
Charge algorithm	multi-stage adaptive			
Temperature compensation	-16 mV / -32 mV / -64 mV / °C			
Protection	Battery reverse polarity (fuse, not user accessible) PV reverse polarity / Output short circuit / Over temperature			
Operating temperature	-30 to +60 °C (full rated output up to 40 °C)			
	95% , non-condensing			
Data communication port	VE.Direct or Bluetooth			
Remote on-off	Yes (2 pole connector)			
Programmable relay	DPST			
Parallel operation	AC rating: 240VAC / 4A DC rating: 4A up to 35VDC, 1A up to 60VDC Yes (not synchronized)			