

BlueSolar PWM Charge Controller-LCD&USB 12/24V & 48V





BlueSolar Charge Controllers LCD&USB 12/24-5/10/20





LCD&USB 12/24-30 & 48-10/20/30

Liquid crystal display

For status monitoring and set-up

Load output

Over-discharge of the battery can be prevented by connecting all loads to the load output. The load output will disconnect the load when the battery has been discharged to a pre-set voltage.

Some loads (especially inverters) can best be connected directly to the battery, and the inverter remote control connected to the load output. A special interface cable may be needed, please see the manual. The connect and disconnect voltages are adjustable.

Day/night timing of the load output

This option allows for a pre-set ON-time after dusk.

Programmable battery charge algorithm

Preprogrammed algorithms for AGM, GEL, Flooded or LiFePO4 batteries (with internal BMS only)

Two 5 Volt USB outputs

Maximum current (both outputs combined): 2A

BlueSolar PWM Charge Controller	12/24-5	12/24-10	12/24-20	12/24-30	48-10	48-20	48-30
Battery Voltage	12/24 V with automatic system voltage detection					48V	
Rated charge current	5A	10A	20A	30A	10A	20A	30A
Automatic load disconnect	Yes						
Maximum solar voltage	28V / 55V (1) 100					100V (1)	
Self-consumption	< 10 mA						
Load output	Manual control + low voltage disconnect +timer						
Protection	Battery reverse polarity (fuse) Output short circuit Over temperature						
Overload protection	Shut down after 60 s in case of 130% load Shut down after 5 s in case of 160% load Short circuit: immediate shut down						
Grounding	Common positive						
Operating temp. range	-35 to +60°C (full load)						
Humidity (non-condensing)	Max 95%						
			BATTERY				
Charge voltage 'absorption'	Factory setting: 14,4V / 28,8V				Factory setting: 57,6V		
Charge voltage 'float' (2)	Factory setting: 13,7V / 27,4V				Factory setting: 54,8V		
Low voltage load disconnect	Factory setting: 11,2V / 22,4V				Factory setting: 44.8V		
Low voltage load reconnect	, , , , ,					Factory setting: 50,4V	
			USB				
Voltage	5V						
Current	2A (total from 2 outputs)						
			ENCLOSURE				
Protection class	IP20						
Terminal size	6 mm² / AWG10			16mm² / AWG6			
Weight	0,15kg			0,3kg			
Dimensions (h x w x d)	96 x 169 x 36 mm (3.8 x 6.7 x 1.4 inch)			101x184x47mm (4.0 x 7.4 x 1.8 inch)			
			STANDARDS				
Safety	EN60335-1, IEC 62109-1						
EMC	EN 61000-6-1, EN 61000-6-3, ISO 7637-2						
1) For 12V use 36 cell solar panel For 24V use 72 cell solar panel For 48V use 2x 72 cell solar pa	s or 2x 36 cell in	series in series	2) The controller s absorption voltag Whenever the bat cycle is triggered.	e has been reach	ed.	2	

