

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

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





BlueSolar Charge Controllers LCD&USB 12/24-30 & 48-10/20/30

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)					100V (1)		
Self-consumption	< 10 mA							
Load output	Manual control + low voltage disconnect +timer							
Protection	Battery reverse polarity (fuse) Output short circuit Over temperature							
	Shut down after 60 s in case of 130% load							
Overload protection	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: 12,6V / 25,2V				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 panels For 24V use 72 cell solar panels or 2x 36 cell in series For 48V use 2x 72 cell solar panels or 4x 36 cell in series Whenever the battery voltage becomes lower than 13V, a new charge cycle is triggered.								

