

BlueSolar PWM-Light charge controllers

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BlueSolar PWM-Light 10 A

Features

- Load output with low battery voltage disconnect function.
- Lighting control function, one timer only.
- Two digit seven segment display for quick and easy setting of the load output functionality, including timer setting.
- Three stage battery charging (bulk, absorption, float), not programmable.
- Load output protected against over load and short circuit.
- Protected against reverse polarity connection of the solar array and/or battery.

Day/night timing options

See manual for details

Blue Solar PWM-Light	12/24-5	12/24-10	12/24-20	12/24-30
Battery Voltage	12/24V with automatic system voltage detection			
Rated charge current	5 A	10 A	20 A	30 A
Automatic load disconnect	Yes			
Maximum solar voltage	28 V / 55 V (1)			
Self-consumption	< 10 mA			
Load output	Manual control + low voltage disconnect			
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	-20 to +50°C (full load)			
Humidity (non condensing)	Max 95 %			
BATTERY				
Bulk charge (2)	14.5 V / 29 V			
Absorption charge	14.2 V / 28,4 V			
Float charge	13.8 V / 27,6 V			
Low voltage load disconnect	11,2 V / 22,4 V			
Low voltage load reconnect	12,6 V / 25,2 V (manual)			
	13,1 V / 26,2 V (automatic)			
ENCLOSURE				
Protection class	IP20			
Terminal size	5 mm ² / AWG10			
Weight	0,13 kg			0,15 kg
Dimensions (h x w x d)	70 x 133 x 33,5 mm (2.8 x 5.3 x 1.3 inch)			
STANDARDS				
Safety	IEC 62109-1			
Emission	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		2) The controller immediately switches to the lower absorption voltage level after the bulk voltage has been reached.		