

BlueSolar PWM-Light 48V Charge Controllers

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BlueSolar PWM-Light 48-30

Features

- Load output with low battery voltage disconnect function.
- Lighting control function, one timer only.
- 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

BlueSolar PWM-Light	48-10	48-20	48-30
Battery Voltage	48V		
Rated charge current	10A	20A	30A
Automatic load disconnect	Yes		
Maximum solar voltage	100 V		
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	58,0V (1)		
Charge voltage 'absorption'	56,8V		
Charge voltage 'float'	55,2V		
Low voltage load disconnect	44,8V		
Low voltage load reconnect	50,4V (manual) 52,4V (automatic)		
ENCLOSURE			
Protection class	IP20		
Terminal size	6 mm ² / AWG10		
Weight	0,17 kg		
Dimensions (h x w x d)	95 x 140 x 33,5 mm		
STANDARDS			
Safety	IEC 62109-1		
EMC	EN 61000-6-1, EN 61000-6-3		

- 1) The Controller immediately switches to the lower absorption voltage level after the bulk charge level has been reached.