

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.