

## BLUESMART IP22



Cargador de baterías Victron Energy BluePower IP22



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### High efficiency

With up to 94 % efficiency, these chargers generate up to four times less heat when compared to the industry standard. And once the battery is fully charged, power consumption reduces to 0,5 Watt, some five to ten times better than the industry standard.

### Adaptive 6-stage charge algorithm: test – bulk – absorption – recondition – float – storage

The BlueSmart charger features a microprocessor controlled 'adaptive' battery management. The adaptive feature will automatically optimize the charging process relative to the way the battery is being used.

### Storage Mode: less maintenance and aging when the battery is not in use

The storage mode kicks in whenever the battery has not been subjected to discharge during 24 hours. In the storage mode float voltage is reduced to 2,2 V/cell (13,2 V for a 12 V battery) to minimize gassing and corrosion of the positive plates. Once a week the voltage is raised back to the absorption level to 'equalize' the battery. This feature prevents stratification of the electrolyte and sulfation, a major cause of early battery failure.

### Also charges Li-ion (LiFePO<sub>4</sub>) batteries

LiFePO<sub>4</sub> batteries are charged with a simple bulk – absorption – float algorithm.

### NIGHT and LOW setting

When in NIGHT or LOW mode, the output current is reduced to max. 25% of the nominal output and the charger will be totally noiseless. The NIGHT mode automatically ends after 8 hours. The LOW mode can be ended manually.

### Protected against overheating

### Eleven LED's for Status indication

## SPECIFICATIONS

BlueSmart IP22		12V 15 / 20 / 30 (1) 12 V 15 / 20 / 30 (3)	24V 8 / 12 / 16 (1) 24V 8 / 12 / 16 (3)
Charge nominal voltage		12 Vdc	24 Vdc
Charge current, normal mode		15 / 20 / 30 Amp	8 / 12 / 16 Amp
Charge current, Night or Low		7,5 / 10 / 15 Amp	4 / 6 / 8 Amp
Charge voltage			
	Absorption	Normal: 14,4 - Hight: 14,7 - Li-ion: 14,2 Vcc	Normal: 27,6 - Hight: 27,6 - Li-ion: 27,0 Vcc
	Float	Normal: 13,8 - Hight: 13,8 - Li-ion: 13,5 Vcc	Normal: 27,6 - Hight: 27,6 - Li-ion: 27,0 Vcc
	Storage	Normal: 13,2 - Hight: 13,2 - Li-ion: 13,5 Vcc	Normal: 26,4 - Hight: 26,4 - Li-ion: 27,0 Vcc
Number of output		1 or 3	1 or 3
Input voltage / Frequency range		180 - 265 Vca / 45 - 65 Hz	180 - 265 Vca / 45 - 65 Hz
Charge algoritm		6 - stage adaptive	
Protection		Battery reverse polarity (fuse) Output short circuit Over temperature	
Operating temperature range		-20 to 50 °C	
Humidity		Max. 98 %	
Enclosure			
Material & colour		Aluminium (blue RAL 5012)	
Battery conne		Screw terminals 13 mm²	
230 Vac connection		Cable of 1,5 mts with CEE 7/7 plug	
Dimensions ( h x w x d)		235 x 108 x 65 mm	235 x 108 x 65 mm
Weight		1,3 Kgr	1,3 Kgr
Warranty		5 years	5 years
Standards			
	Safety	EN60335-1, EN60335-2-29	
	Emission	EN55014-1, EN 61000-6-3, EN 61000-3-2	
	immunity	EN55014-2, EN61000-6-1, EN61000-6-2, EN61000-3-3	
	Automotive	E4-10R	

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