

Blue Power IP67 Charger

180-265 VAC

www.victronenergy.com



Blue Power IP67 Charger
12/25

Completely encapsulated: waterproof, shockproof and ignition protected

Water, oil or dirt will not damage the Blue Power IP67 Charger. The casing is made of cast aluminium and the electronics are moulded in resin.

Start interrupt

The models with suffix (1+Si) feature a second current limited output which is always powered as long as 180 – 265 VAC is present on the input. This output can for example be used to prevent starting of a vehicle before unplugging the battery charger (start interrupt function).

The highest efficiency ever!

Setting a new industry standard: with 92% efficiency or better, these chargers waste three to four times less heat.

And once the battery is fully charged, power consumption reduces to less than a Watt, some five to ten times better than the industry standard.

Adaptive 4-stage charge algorithm: bulk – absorption – float – storage

The Blue Power Charger features a microprocessor controlled 'adaptive' battery management. The 'adaptive' feature will automatically optimise the charging process relative to the way the battery is being used.

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

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 minimise 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 sulphation, a major cause of early battery failure.

Protected against overheating

Can be used in a hot environment such as a machine room. Output current will reduce as temperature increases up to 60°C, but the charger will not fail.

Two LEDs for status indication

Yellow LED: bulk charge (blinking fast), absorption (blinking slow), float (solid), storage (off)
Green LED: power on

Blue Power IP67 Charger	12/7	12/13	12/17	12/25	24/5	24/8	24/12
Input voltage range and frequency	180-265 VAC 45-65 Hz						
Efficiency	93%	93%	95%	95%	94%	96%	96%
No load power consumption (W)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Charge voltage 'absorption' (V DC)	14,4	14,4	14,4	14,4	28,8	28,8	28,8
Charge voltage 'float' (V DC)	13,7	13,7	13,7	13,7	27,6	27,6	27,6
Charge voltage 'storage' (V DC)	13,2	13,2	13,2	13,2	26,4	26,4	26,4
Charge current (A)	7	13	17	25	5	8	12
Charge algorithm	4-stage adaptive						
Can be used as power supply	yes						
Protection	Battery reverse polarity (fuse)		Output short circuit		Over temperature		
Operating temp. range	-20 to +60°C (full rated output up to 40°C)						
Humidity	Up to 100%						
Start interrupt option (Si)	Short circuit proof, current limit 0,5 A Output voltage: max one volt lower than main output						
ENCLOSURE							
Material & Colour	aluminium (blue RAL 5012)						
Battery-connection	Black and red cable of 1,5 meter						
230 V AC-connection	Cable of 1,5 meter with CEE 7/7 plug						
Protection category	IP67						
Weight (kg)	1,8	1,8	2,4	2,4	1,8	2,4	2,4
Dimensions (h x w x d in mm)	85 x 211 x 60	85 x 211 x 60	99 x 219 x 65	99 x 219 x 65	85 x 211 x 60	99 x 219 x 65	99 x 219 x 65
STANDARDS							
Safety	EN 60335-1, EN 60335-2-29						
Emission Immunity	EN 55014-1, EN 61000-6-3, EN 61000-3-2						
Automotive Directive	EN 55014-2, EN 61000-6-1, EN 61000-6-2, EN 61000-3-3						