

Blue Power IP20 Charger

90-135 VAC

www.victronenergy.com



Blue Power IP20 Charger 24/8

The highest efficiency ever!

Setting a new industry standard: with 93% 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.

Totally silent

Model 24/8: no fan.

Models 12/25 and 24/12: small inaudible low rpm fan, temperature controlled.

Protected against overheating

Output current will reduce as temperature increases up to 60°C, but the Blue Power charger will not fail.

Two LED's for status indication

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

Green LED: power on

Learn more about batteries and battery charging

To learn more about batteries and charging batteries, please refer to our book 'Energy Unlimited' (available free of charge from Victron Energy and downloadable from www.victronenergy.com).

Blue Power IP20 Charger	12/7 (1)	24/8 (1)
Input voltage range	90-135 VAC or 125-175 VDC	
Efficiency	94%	95%
No load power consumption	0.5W	0.5W
Frequency	45-65 Hz or DC	
Number of outputs	1	1
Charge voltage 'absorption' (V DC)	14,4	28,8
Charge voltage 'float' (V DC)	13,8	27,6
Charge voltage 'storage' (V DC)	13,2	26,4
Charge current (A)	7	8
Charge characteristic	4-stage adaptive	
Minimum battery capacity (Ah)	24	24
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 (non condensing)	Max 95 %	
ENCLOSURE		
Material & Colour	Aluminium (blue RAL 5012)	
Battery-connection	Black and red cable, length 5 feet, with battery clamps	
230 V AC-connection	5 feet cord with NEMA 5-15 plug	
Protection category	IP20	
Weight (kg)	2,9	
Dimensions (h x w x d in mm)	2.4 x 3.5 x 8.3	
STANDARDS		
Safety	EN 60335-1, EN 60335-2-29	
Emission	EN 55014-1, EN 61000-6-3, EN 61000-3-2	
Immunity	EN 55014-2, EN 61000-6-1, EN 61000-6-2, EN 61000-3-3	