

# Blue Power Battery Charger IP 20

www.victronenergy.com



**Blue Power Battery Charger  
IP 20 12/15**

### Universal input: 90-265 VAC or 90-350 VDC

The charger will operate on whatever supply is available.

### Adaptive 4-stage charge characteristic: 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 and silent fan cooling

Output current will reduce as temperature increases up to 60°C, but the Blue Power charger will not fail. The load and temperature controlled fan is practically inaudible

### Two LED's for status indication

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

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](http://www.victronenergy.com)).

| Blue Power Charger IP 20           | 12/7<br>12/10<br>12/15  | 24/5<br>24/8  |
|------------------------------------|---|---------------|
| Input voltage range                | 90-265 VAC or 90-350 VDC  |               |
| Frequency                          | 45-65 Hz or DC  |               |
| Charge voltage 'absorption' (V DC) | 14,4  | 28,8          |
| Charge voltage 'float' (V DC)      | 14  | 28            |
| Charge voltage 'storage' (V DC)    | 13,2  | 26,4          |
| Charge current (A)                 | 7 / 10 / 15   | 5 / 8         |
| Charge characteristic              | 4-stage adaptive  |               |
| Minimum battery capacity (Ah)      | 24 / 36 / 55  | 24 / 36 / 55  |
| Can be used as power supply        | √   | √             |
| Protection                         | Battery reverse polarity (fuse in battery cable)<br>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 of 1,5 meter  |               |
| 230 V AC-connection                | Cable of 1,5 meter with Europe class 1 plug (CE certified)                                |               |
| Protection category                | IP 20   |               |
| Weight (kg)                        | 1,3   | 1,3           |
| Dimensions (h x w x d in mm)       | 50 x 85 x 200   | 50 x 85 x 200 |
| STANDARDS                          |   |               |
| Safety                             | EN 60335-1, EN 60335-2-29   |               |
| Emission                           | EN 55014-1, EN 61000-3-2  |               |
| Immunity                           | EN 55014-2, EN 61000-3-3  |               |