



◆ 24 Month Warranty

### DESCRIPTION

**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

### SPECIFICATIONS AND MODELS

SNAPTEC BLUE POWER	SBP-12/7 SBP-12/10 SBP-12/15	SBP-24/5 SBP-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	16 / 24
Can be used as power supply	√	√
Protection	Battery reverse polarity (fuse in battery cable) Output short circuit Over temperature	
Operating temp. range	-20 to +60°C (full rated output up to 40°C)	
Humidity (non condensing)	Max 95 %	
<b>ENCLOSURE</b>		
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
<b>STANDARDS</b>		
Safety	EN 60335-1, EN 60335-2-29	
Emission	EN 55014-1, EN 61000-3-2	
Immunity	EN 55014-2, EN 61000-3-3	

**BATTERY CHARGER INSTALLATION AND INSTRUCTIONS FOR USE**

Snaptec Blue Power IP20 battery chargers will charge and maintain lead-acid batteries and supply users connected to the battery.

The DC cables are fitted with battery clamps for mobile use. A pair of ring terminals for 10 mm screw/stud is provided, for permanent installation.

**State of the art microprocessor controlled charge algorithm Adaptive 4-stage charge characteristic: bulk – absorption – float – storage**

Snaptec Blue Power IP20 chargers feature a microprocessor controlled ‘adaptive’ battery management system. The ‘adaptive’ feature will automatically optimise the process relative to the way the battery is being used.

**The right amount of charge:** variable absorption time When only shallow discharges occur, the absorption time is kept short in order to prevent overcharging of the battery. After a deep discharge the absorption time is automatically increased to make sure that the battery is completely recharged.

**Less maintenance and aging when the battery is not in use ( the Storage Mode ):** After the absorption period, the Blue Power IP20 charger will switch to float charge and thereafter, if the battery has not been subjected to discharge, the Storage Mode kicks in. In the storage mode float voltage is reduced to 2,2 V/cell (13,2 V for 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.

**Installation and instructions for use**

1. The battery charger must be installed in a well-ventilated area close to the battery (but, due to possible corrosive gas not above the battery!)
2. Connect the battery clamps or ring terminals to the battery: the minus cable (black) to the minus (-) pole of the battery, the plus cable (red) to the plus (+) pole of the battery.
3. Plug the AC mains cable into the wall socket. The charge cycle will now start.

**LED indication**

The green LED will be on when the charger is connected to an AC source.  
The yellow LED will blink at a fast rate during bulk charge and at a slower rate during absorption charge.  
The yellow LED will be on continuously after completion of the charge cycle

**Safety regulations and measures**

1. Install the charger according to the stated instructions.
2. Never use the chargers at a location where there is danger of gas or dust explosions.
3. Connections and safety features must be executed according to the locally applicable regulations.
4. In case of wrong polarity connection, the fuse in the DC cable will blow. Check the polarity before replacing the fuse.

