



- A Unique Battery Charger
- Fully Automatic
- Electronically safe against user errors!
- Smart Option for computerized battery charging and management!

# SWITCH MODE BATTERY CHARGER






Outdoor

IP44


**Charges 12V & 24V Batteries**

**Returns to last selected Mode when restarted**

**Digital display of real-time battery charge status**

**Fully automatic from Charge to Maintenance!**

**MCU controlled, fully INTERACTIVE**

**Silent NIGHT Mode**

**Automatically Diagnoses, Recovers, Charges & Maintains batteries for months...**

**Ten Options – 28.8V, 29.4V, 14.4V, 14.7V, 16V/CALCIUM, 14.4/NIGHT, 16V/BOOST, 32V/BOOST, 13.6V/MANUAL and 13.6V/SUPPLY**

**Charges WET/Flooded, GEL, AGM, MF, VRLA, Calcium type Lead-Acid Rechargeable Batteries**

**Charges Lead-Calcium Batteries**

## Technical Data

MODEL	BX-5
Input Voltage AC	220-240VAC, 50/60Hz
Input Operational Voltage AC	170-260VAC, 50/60Hz
Output Voltage	12V & 24V (Auto-Detect)
Input Current	4A RMS max
Efficiency	>75%
Charging Voltage	28.8V±0.58V, 29.4V±0.58V, 14.4V±0.29V, 14.7V±0.29, 13.6V±0.27V, 16.0V±0.32V, 32V±0.64V
Charging Current	25.0A±10%, 12.5±10%, 10.0±10%, 5.0A±10%, 1.5A±20% and <1.0A
Back Current Drain *	5mA
Ripple**	Max 300mV, 0.15A
Ambient Temperature	-20°C to +50°C/-4°F to +122°F Reduced output power at higher temperature
Cooling	Fan
Type of Charger	Nine step, fully automatic, switch mode with maintenance charging
Type of Batteries	12V & 24V Lead-acid batteries (WET, MF, AGM and GEL) 12V Lead-Calcium batteries
Battery Capacity	50-500Ah (for 12V), 25-250Ah (for 24V), 25-100Ah (for 12V Lead-Calcium batteries)
Dimensions (LxWxH)	260x135x70mm
Housing Protection	IP44 (Splash proof) Outdoor use
Weight	2.600kg
Noise Level	<50 dB (Night Mode, tested from a distance of 50cm)

## Bulk Charging Time

Battery Size (Ah)	For about 80% Charge (hours)	12V	24V	12V Calcium
25		5	5	13
50		5	10	25.5
75		7.5	15	38
100		10	20	50.5
150		15	30	
200		20	40	
250		25	50	
350		35		
500		50		

Note: Above table for reference only. Actual data may differ due to battery condition.

## Application

