

## Battery Chargers with Output Power from 25W to 1100W

They are suitable for charging of the **maintenance-free sealed lead-acid batteries**. They have an rectangular current-voltage charging characteristic with both constant charging current and constant charging voltage limitation. Output power is in the range 25W, 40W, 80W, 200W, 350W, 550W and 1100W with the nominal voltage 12V, 24V and 48V.

### Specification:

- input voltage range:
  - o 90VAC to 264VAC / 47Hz to 440Hz or 120VDC to 370VDC (for all BC/BCL models)
  - o 180VAC to 253VAC / 50Hz or 90VAC to 127VAC /60Hz (for SX/ZX200, SX/ZX350 and SX/ZX550 models)
  - o 180VAC to 253VAC / 50Hz (for SX/ZX1K1 models)
- maximum charging voltage / maximum charging current:  
 (rectangular current-voltage charging characteristic curve)

TYPE	Charging Voltage /Current	Dimensions (mm)
BC1225 / BCL1225 BC1225K / BCL1225K	13.8V / 1.8A	127x76.2x33 140x87x47
BC1240 / BCL1240 BC1240K / BCL1240K	13.8V / 2.9A	127x76.2x33 140x87x47
BC1280 BC1280K	13.8V / 5.8A	178x108x48 191x116x61
BC2425 / BCL2425 BC2425K / BCL2425K	27.6V / 0.9A	127x76.2x33 140x87x47
BC2440 BC2440K	27.6V / 1.5A	108x63.5x32 127x80x45
BC2480 BC2480K	27.6V / 2.9A	178x108x48 191x116x61
BC4825 / BCL4825 BC4825K / BCL4825K	55.2V / 0.5A	127x76.2x33 140x87x47
BC4840 / BCL4840 BC4840K / BCL4840K	55.2V / 0.7A	127x76.2x33 140x87x47
SX200LS24-C	27.2V / 8A	234x160x52
SX200LS48-CT	54.4V / 4A	234x160x52
SX350LS24-CT	27.2V / 14A	300x190x63
SX350LS48-CT	54.4V / 7A	300x190x63
SX550LS24-CT	27.2V / 21A	300x190x63/102
SX550LS48-CT	54.4V / 10,5A	300x190x63/102
SX1K1ES24-CT	27.2V/40A	300x190x63/102
SX1K1ES48-CT	54.4V/20A	300x190x63/102

- overvoltage protection
- efficiency: typically 70%
- cooling: natural convection (built-in fan for SX550 a SX1K1)
- operational ambient temperature range: 0 °C to +50 °C  
(0 °C to +40 °C for SX/ZX200, SX350, SX550 and SX1K1 models)
- EMI/RFI: in accordance with EN 55022, level B (level A for BCL types)
- safety: SELV in accordance with EN 60950, Protection Class I
- isolation voltage: input/output: 3000VAC  
input/chassis: 1500VAC
- open frame design or enclosed design (add suffix 'K', 'C' or 'CT' for cover)
- weight (without cover):
  - 0.2 kg (7.06 oz) for BC/BCL \*\*25 and BC/BCL \*\*40
  - 0.55 kg (19.04 oz) for BC1280 and BC2480
  - 1.3 kg (2.87 lbs) for SX/ZX200
  - 2.5 kg (5.51 lbs) for SX350
  - 3.1 kg (6.83 lbs) for SX550
  - 3.6 kg (7.94 lbs) for SX1K1

### **Application:**

The battery chargers are suitable for **charging of the maintenance-free sealed lead-acid batteries** in accordance to the **rectangular constant current – constant voltage charging characteristic curve**.

They are either in **open frame design or with a protective metal cover**. Mechanism for their fitting on **DIN-Rail** is available as an option for covered versions (add suffix **'-DIN'** to the above model number).

There is possible to connect the battery chargers of the same type and with the same nominal output voltage in **parallel** for increase of the output current.

There is also possible to use the battery chargers for creating of a **simple uninterruptible power supply system with a DC output voltage (UPSDC)**. Please, contact producer for this application.

**You will find DIN-Rail mounted Battery Chargers of THE-BS series in the other data sheets.**

