



DATASHEET & OPERATING INSTRUCTIONS

BC-6100T

Battery Charger 12V/24V - 100A



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OPERATING INSTRUCTIONS

The Durst Heavy Duty BC-6100T Battery Charger has 11 position current control rotary switch for you to select the required rate of charge. Charge output is registered on the Amp Meter.

The required voltage is selected with the 2 position voltage switch 12volts, Off or 24 volts switch. Battery Charging is Simple, just connect to a battery, set the voltage and select the desired current

Amp readings are based on half charged batteries, discharged batteries will give higher charge rates. **Do not exceed 100 amps at 12 volts, 100 amps at 24 volts**

- Connect the Red **POSITIVE (+)** clamp to the positive (+) terminal of the battery in the vehicle and the Black **NEGATIVE (-)** clamp to the negative terminal. Always double check that you have the proper connections
- Switch power ON.
- Switch charger to correct battery voltage.
- Switch amp control clockwise to commence charging. Do not exceed 100 amps for 12 volt batteries or 100 amps for 24 volt batteries.
- As a safety precaution remove main battery connections on vehicles fitted with an alternator as electrical system may fail if charging leads to battery are reversed.
- Caution turn both switches to the OFF position before connecting or disconnecting battery. & do not fast charge 12 volt batteries with battery Charger switch set on the 24 volt position.
- Warning: modern cars fitted with on board computers can be damaged by high voltage spikes when jump starting. To avoid damage it is advisable to disconnect battery and charge for approximately 15-20 minutes at high amps then reconnect and start vehicle using its own power supply. If in doubt check motor vehicle specifications.
- If battery charger is operated at maximum output a careful watch must be kept to ensure that maximum charge is not exceeded.
- The time required to recharge a battery may be roughly determined by dividing the amperes hour capacity of the battery by the charge rate. Eg. A 60 amperes hour battery should be charged for approximately 2 hours at 30 amps. (60 Ahr. Battery divided by 30A. Charge = 2 hours)
- Temperature of electrolyte must always be watched and should not exceed 40-50 degrees °c. Depending on battery manufacturers specifications.
- Always make sure batteries are charged in a well ventilated area.
- Safety goggles should always be worn when working with batteries.
- Engine starting: recharge battery at a maximum 100 amps for 5-10 minutes. Before using starter reduce charging to approximately 50 amps and then press starter key. Only operate with battery connected.



FEATURES

- Designed in Australia for Australian Conditions and Climate.
- Powder Coated Steel Cabinet with cooling vents for maximum air flow.
- Large Pneumatic Wheels - easy to move around.
- Reverse Polarity Protection Buzzer - LED Warning Light
- Circuit Breaker on DC side, resettable Circuit Breaker for AC side.
- Ultra fast Silicone Diode, specially designed Heat Sink for Jump Starting
- Fan to keep Transformer and Diode Rectifier cool under heavy loads
- Transformer: Copper Magnet wire, high grade Silicone laminations
- Dual sprung moving coil Amp meter 0- 120 Amps
- Cable winding Bracket to keep cable tidy while transporting.
- Portable external cable.

PHYSICAL AND DIMENSIONAL PROPERTIES

- Each unit weighs approximately 56 Kg
- Width 570 mm
- Length 330 mm
- Height 1070 mm
- Cable Length 2.0 m
- LS-20AL-35: Cable Size Primary 35mm²
- Heavy Duty 500A Clamps

PERFORMANCE

- Output Voltage : 12Volts and 24 Volts
- Cranking Amps: 1200A
- AC Current primary 6.8A @ 12V DC-100A Continuous
- AC Current primary 12.5A @ 24V DC-100A Continuous

USES

- Suitable for Car/Truck dealer workshops
- Mining, Transport
- Large Battery Banks
- Defence Applications