

AUTOMATIC BATTERY CHARGER

For Float Charging Of
Lead Acid & NI-CD
Batteries



LWC Series

• FEATURES

- Constant voltage output --- overcharge protection.
- Current limited --- overcurrent protection.
- Short circuit protection.
- Battery reverse polarity protection.
- Lead Acid and NI-CD battery selection.
- Charger fail alarm signal.
- Two charging modes --- boost and trickle(float)
- charge modes selection.
- Modular design --- solderless on-site parts replacement.
- Lightning surge protection.

• APPLICATION

- For float charging of batteries used in:
 - Engine starting.
 - PABX./ Key-phone system.
 - Trunk radio.
- Programmable logic controller (PLC).
- Fire fighting / alarm panel.
- Card access security system.

Technical Specification	Model	Battery Type	Float Voltage	Boost Voltage	Current Rating
Voltage : AC 240V +/-10% Frequency : 50Hz +/-5% Phase : Single phase	LWC-12V- 10A/15A/20A/25A	LEAD ACID	13.5V	15.0V	10A/15A/20A
		NI-CD	14.5V	16.0V	10A/15A/20A
	LWC-24V- 10A/15A/20A/25A	LEAD ACID	27.0V	30.0V	10A/15A/20A
		NI-CD	29.0V	32.0V	10A/15A/20A

THYRISTOR CONTROLLED RECTIFICATION

- High efficient SCR controlled rectifier ensures high reliability and durability.
- Charger operates cooler than any other conventional design.

CONSTANT VOLTAGE OUTPUT

- SCR phase control is used to control and regulate output voltage at a constant level which enables correct and accurate charging voltage to be measured before connection of battery to charger.

CURRENT LIMITED OUTPUT

- Output current is limited to maximum current rating of charger.
- Output overload or short circuit will not cause any damage to charger.
- No need to disconnect charger from battery when cranking engine.

TWO CHARGING MODES

- Charger can be selected by a close or open switch for boost or float (trickle) charge voltage selection.

OPTIONAL AUTO TIME BOOST FEATURE

- Auto Timed Boost provides automatic boost charge mode activation with timer to revert to float mode after a preset time.
- A battery condition sensor monitors the battery voltage, when battery voltage drops below a preset level, boost charge mode is automatically activated. After a preset time is reached, the charger reverts to float mode automatically.

MODULAR DESIGN

- A single piece of P.C.B. contains all the control components. All connections to P.C.B. are by plugs and sockets.
- No tedious soldering work needed for site repair.

BATTERY REVERSE POLARITY PROTECTION

- Charger ceases to operate if battery terminals are connected in reverse across charger output terminals.
- Normal operation resumes when battery is re-connected with correct polarity across charger terminals.
- No replacement of fuse or part is needed to resume normal operation.

CHARGER FAIL ALARM SIGNAL

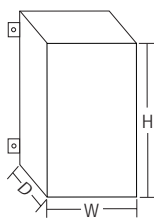
- A volt-free change-over relay provides charger fail alarm output signal.

LEAD ACID BATTERY AND NICKEL CADMIUM BATTERY SELECTION

- Same charger provides selection to charge lead acid or nickel cadmium battery.
- A change of an on board jumper is all that is needed to select charger mode for lead acid or nickel cadmium battery charging.

LIGHTNING SURGE PROTECTION

- Metal Oxide Varistor (MOV) is incorporated to suppress voltage spikes caused by lightning strike and switching of near by heavy power equipment.



DIMENSION
H 495mm
W 305mm
D 225mm