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CAUTION

1. **Please read any battery cautions prior to charging!**
2. When charging, batteries can emit explosive gases therefore it is essential to prevent flames and sparks. The charger is designed for charging sealed lead-acid batteries from 2 to 60 Ah - to an end voltage of 14.4V / 14.7V.
3. Always provide good ventilation when charging.
4. To reduce risk of damage to electric plug and cord, pull by the plug rather than by the cord when disconnecting charger.
5. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and electric shock.
6. Do not operate charger with a damaged cord or plug. Return the charger to the place where purchased for repairs.
7. Never operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way. Take it to a qualified serviceman for testing.
8. Do not disassemble the charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electrical shock or fire.
9. To reduce risk of electric shock, unplug charger from AC outlet before attempting any maintenance or cleaning. Turning off controls will not reduce the risk.

Made in China



DC120833

12V Sealed Lead-Acid Battery Charger

Operating Instructions



Introduction

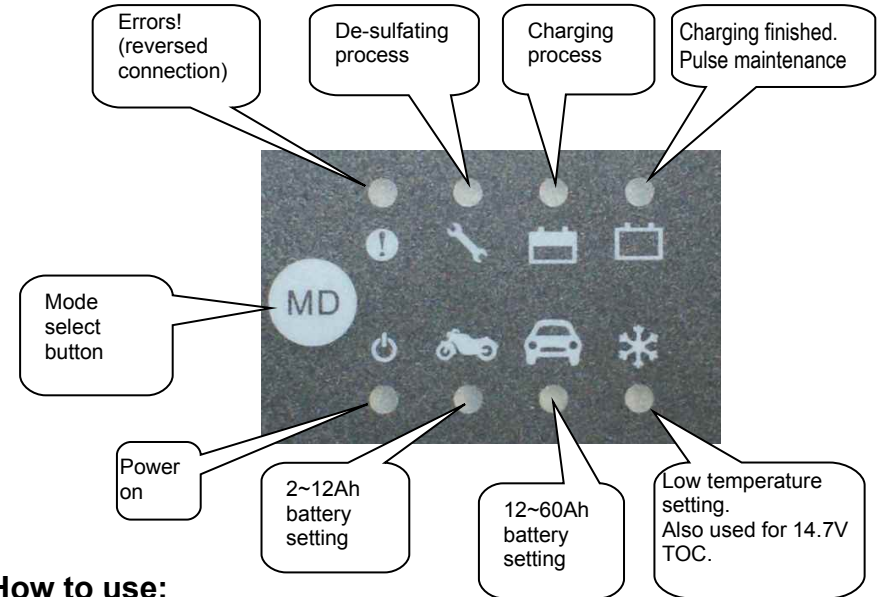
The DC120833 is programmed for an automatic four stage (Ud-I-Uo-Up) charging process. It is designed for 12V, 2 to 60Ah sealed lead-acid batteries. It is also ideal for keeping all other lead acid battery types “topped up” and maintained. Stage “Ud” is for assisting with de-sulfating the battery through a pulse charge process. When battery is sufficiently recovered, stage “I” will give bulk current charging (0.8A or 3.3A, defined by user). Then, “Uo” stage follows where the current is reduced and the output voltage is regulated to 14.4V (14.7V is for low temperature selection (Snow symbol)). When the current is [automatically] reduced to 0.4A, stage “Up” begins. At the completion of this stage, the battery is charged completely and the charge cycle is finished. The charger will enter pulse charge mode again when the battery voltage drops below 12.90V, thus maintaining the battery as fully charged.

For 2 to 12Ah battery, select 0.8A (Motorcycle symbol) and for 12 to 60Ah battery, select 3.3A (Car symbol). The (Snow symbol) mode is also suitable for batteries requiring 14.7V Top of Charge voltage (TOC).

Specification

Input Voltage	100-240VAC, 50-60Hz
Input Current	1.1A
Back current drain	1.3mA (current used from battery when not connected to power)
Charge voltage	Rating 12V, Bulk 14.4V/14.7V (14.7V for low temperature)
Charge current	0.8A (2~12Ah, Motorcycle) 3.3A (12~60Ah, Car)
Operating Temp	-20C to 50C
Cooling	Natural convection. Do not cover the charger.
Charge principle	Automatic 4 stages. Ud-I-Uo-Up
Battery type	12V sealed lead-acid batteries. AGM, Gel, VRLA, SLA.
Battery capacity	2~60Ah
Maintenance	All 12V lead acid battery types
Maintenance Volts	Charger restarts when battery voltage drops below 12.90V

Charger will not overcharge “sealed” lead acid batteries. Although this charger can be used on “wet” batteries and is in fact ideal for maintaining them, it is not suitable for Calcium types when discharged.



How to use:

1. Connect positive clip (red) to positive battery terminal, the black clip to negative.
2. Connect the AC cord to the power outlet. The red alarm indication light will indicate a battery which is connected in reverse polarity.
3. Pressing the “MODE” (MD) button and stepping forward one press at a time until the required mode is reached.
4. When the “charging finished” led lights up, the battery is fully charged. Leave the battery connected for maintenance charging.
5. When disconnecting charger, disconnect in reverse sequence from connecting.

The table shows the duration of Bulk step-up to about 80% state of charge.

Battery type (Ah)	MODE	Time (hours)
2	🏍️	2-3
12		10-12
14	🚗	3-4
50		12-14
60		18-20