

POWER TOOLS BATTERY CHARGER

INSTRUCTION MANUAL



Model:DCB104

Please contact us via hoyoa2020@gmail.com

DCB104

CHARGERS INSTRUCTION MANUAL

CHARGER SPECIFICATIONS

1.1 AC Input

The separate universal AC adaptor (power supply) can be used with world wide AC voltage of 100V~240V, 50~60HZ.

1.2 Output Specification

The output of the charger is 10.8V to 18V DC 3.0A and has an automatic three-stage mode of Pre-charging>constant current charging>constant voltage charging.

CHARGE TIMES: Li-ion

Capacity(Ah)	Time in Mins
2.0Ah	40
3.0Ah	60
4.0Ah	80
6.0Ah	130
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1.3 Charging Temperature

Batteries should be cool before charging commences and the ambient temperature should be less than 40°C (104°F) and more than -10°C (-14°F).

1.4 Charging Protection

The charger has built-in circuit protection to prevent overheating, short circuits, over-current, over-voltage, under-voltage and timed charging protection.

It also has the function to detect single battery cell during charging, which makes the charger is more compatible with all battery packs, and prevents overcharging the single battery cell, achieving warning of faulty batteries.

1.5 Charging Procedure

- (1) The green and yellow light flashes once after being connected to the power supply, that indicates it is ready to enter into the charging procedure.
- (2) Insert the battery pack into the charger, making sure the pack is fully seated in the battery cavity. the charging procedure will start when the green light flashes.
- (3)The charger will flash a green light during charging, when the battery is fully charged only green light will remain ON continuously.
- (4)The battery pack will start a Hot/Cold delay when the charger detects a battery pack that is too hot or too cold. Now the green light flashes but the yellow light steadily illuminates. Suspending charging until the battery pack has reached to an appropriate temperature, and the yellow light will turn off , and the green light flash.
- (5) If the green and yellow lights flash simultaneously after inserting the battery pack, there would be a fault with the battery pack, which may be due to the battery pack not being properly inserted or damaged
- (6)After charging is complete unplug the charger from the power source.

1.6 Light Indicators

- (1) PACK CHARGING (green light flashing)
- (2)PACK CHAGED(Green light always on)
- (3) HOT/COLD DELAY (Green light flashing, yellow light always on)
- (4)BAD BATTERY (Green light and yellow light are flashing at the same time)

CHARGING ADVICE IMPORTANT

To obtain the best performance and lengthen the life of the battery pack it should be charged correctly. DO NOT charge the battery pack in an air temperature below +0 °C (32°F), or above +40 °C (104°F). This is important and will prevent serious damage to the battery pack. It is normal for the charger and battery pack to become warm to the touch while charging. The battery pack should be recharged when it fails to produce sufficient power to operate the tool - (when it loses its "grunt"). DO NOT CONTINUE to use a battery with low voltage or capacity. Immediately charge the battery. Always keep the charger battery cavity clear. DO NOT put any metal objects into battery cavity as it may short circuit the charger. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug the charger before attempting to clean it.

To assist in the cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as in a metal shed, or an un-insulated vehicle or trailer.

CAUTION-BATTERY CHARGERS CAN CAUSE ELECTRIC

SHOCK, SEVERE INJURY AND DEATH

- Please read all instructions before using the charger.
- This charger is designed for indoor use only.
- Do not probe with conductive metal objects during charging.
- Do not insert a cracked or damaged battery into the charger.
- Do not allow any liquid to get inside charger. Keep it away from water and moisture.
- To reduce the risk of injury, charge only batteries designed for MAK tools in this charger. Other types of batteries may burst, causing personal injury and damage.

Please make sure the power cable is at the correct place, do not be trampled/damaged/over-pressed.

To reduce the risk of damage, user should disconnect the charger from the wall socket. If pulling the power cable off the wall socket, that is not good.

THESE CHARGERS ARE CAREFULLY MANUFACTURED TO SUIT AND REPLACE ORIGINAL BRAND CHARGERS. THEY MUST NOT BE CONSIDERED TO BE ORIGINAL EQUIPMENT MANUFACTURERS SPARE PARTS. ALL BRANDS AND TRADEMARKS ARE THE PROPERTY OF THEIR RESPECTIVE OWNERS. ALL CHARGERS HAVE A TWELVE MONTH WARRANTY FROM DATE OF PURCHASE.