



## CGR-722

### 48V, 22A LiFePO4 Battery Charger For Lithium Battery



### OPERATORS MANUAL

Serial number: \_\_\_\_\_

Purchase date: \_\_\_\_\_

#### INSTRUCTIONS:

Thank you for purchasing our product. Please read the entire instructions before use. The CGR-722 LiFePO<sub>4</sub>, 48V 22A charger is an economic, high quality 100-240VAC balance charger for RHOX 16 CELL (51.2V) Lithium Iron Phosphate batteries.

The charging program consists of 3 steps: constant current, constant voltage and float charging. The chargers provide protection against overload, over-voltage, over-heating, short circuit and reverse polarity connections. The RHOX battery packs internal BMS (Battery Management System) will turn the charger ON and OFF as required.

#### APPROVED RHOX BATTERIES:

- BAT-48100, 51.2V 100Amphr LiFePo<sub>4</sub>, single 48V pack (22Amp charger 5-7 Hour from full discharge)
- BAT-48160, 51.2V 160Amphr LiFePo<sub>4</sub>, single 48V pack (22Amp charger 7-10 Hour from full discharge)  
**(DO NOT USE 22AMP CHARGER ON BAT-12100)**

#### PLUGS:

Your charger ships with a short cord SB50 GREY quick disconnect. The Vehicle Gender specific cords for Club Car, E-Z-GO, Yamaha, are ordered separately. Please ensure SB50 QD connectors are tight before use. Observe polarity!



**SPECIFICATIONS:**

<b>DC Output</b>	
Maximum DC output voltage	58.4V
Maximum DC output current	22A
Maximum DC output power	1300W
Nominal DC output current	22A @ 110VAC, 22A @ 220VAC
Battery type	Lithium LiFePo4 51.2V 16 CELL ONLY
<b>AC Input</b>	
AC input voltage range	85-265VAC (With 14AWG IEC C19/C20 Connector)
Nominal AC input voltage	100-240VAC
Nominal AC input frequency	50 / 60Hz
Maximum AC input current	12A~110VAC, 6A~220VAC
Nominal AC input current	6A~110VAC, 3A~220VAC (Float mode <1A)
Power factor	>0.9pf
<b>Mechanical</b>	
Dimensions	L*W*H = 282×168×89 mm (11.1"x6.6"x3.5")
Weight	10 lbs (4.5 kg) (Including charger, AC cable only, DC cable separate)
Cooling	Active cooling with fan
<b>Environmental</b>	
Enclosure	IP66
Humidity	5% – 95%
Operating temperature	-20°C to +65°C (-4°F to 149°F) Derated at >40°C (104°F)
Storage temperature	-40°C to +85°C (-40°F to 185°F)

**EXPLANATION OF LED STATUS:**

<b>LED</b>	<b>Charger Status</b>
1. LED solid green.	1. The charger is ready to charge, or Charging is complete.
2. LED Green blinking.	2. The charger is charging.
3. Red light blinking quickly.	3. Input power failure.
4. Red and Green light blinks alternately.	4. Short circuit or reversed.
5. Red light blinks 2 times, interval 1 second, blinks 2 times again.	5. Charger temperature over-heating alarm.
6. Red light blinks 3 times, interval 1 second, and then blinks 3 times.	6. Output over-current alarm.
7. Red light blinks 4 times, interval 1 second, then blinks 4 times.	7. Output over-voltage alarm.



#### WARNING AND SAFETY NOTES:

- Battery manufacturers recommend NEW LiFePo4 Lithium Iron Phosphate batteries to CHARGE THE BATTERY FIRST BEFORE DRIVING IT. It takes 2-3 discharge/recharge cycles to balance a NEW battery.
- Never leave the charger unattended when it is connected to its power supply.
- The allowable AC input voltage is 100-240VAC, 50/60Hz. Never connect it to any other voltage.
- Never place the charger and batteries connected to it on any form of flammable surface.
- Never operate the charger in the vicinity of flammable material or gas.
- Do not submerge the charger in liquids.
- Ensure that there is unrestricted airflow to and from the charger's cooling slots. Never place the charger on a carpet or similar surface.
- Do not overload AC circuits, the charger may need a full 15amp circuit.
- Do not short circuit the terminals.
- Take great care to maintain correct battery polarity. (STICKER ON UNIT HAS WIRE COLOR AND POLARITY)
- Read the battery manufacturer's instructions and adhere to them strictly.

#### PROP 65:

##### CALIFORNIA PROPOSITION



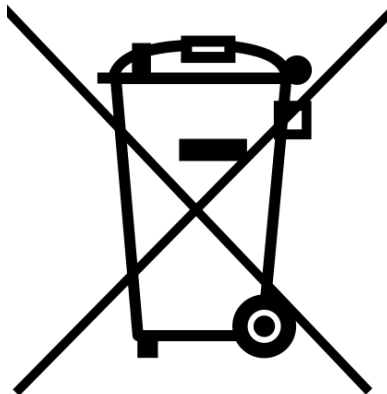
**65 WARNING**



**WARNING:** This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

For more information: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Recycle Electronic Component**





## **DRIVE, CHARGE, DRIVE, REPEAT.**



**RHOX Lithium Iron Phosphate chargers are highly efficient, very compact, and most important, Durable.**

