Platform Parts

INSTRUCTIONS

Datasheet no.
BC5-13-261105

BC-48V30A75

Battery Charger

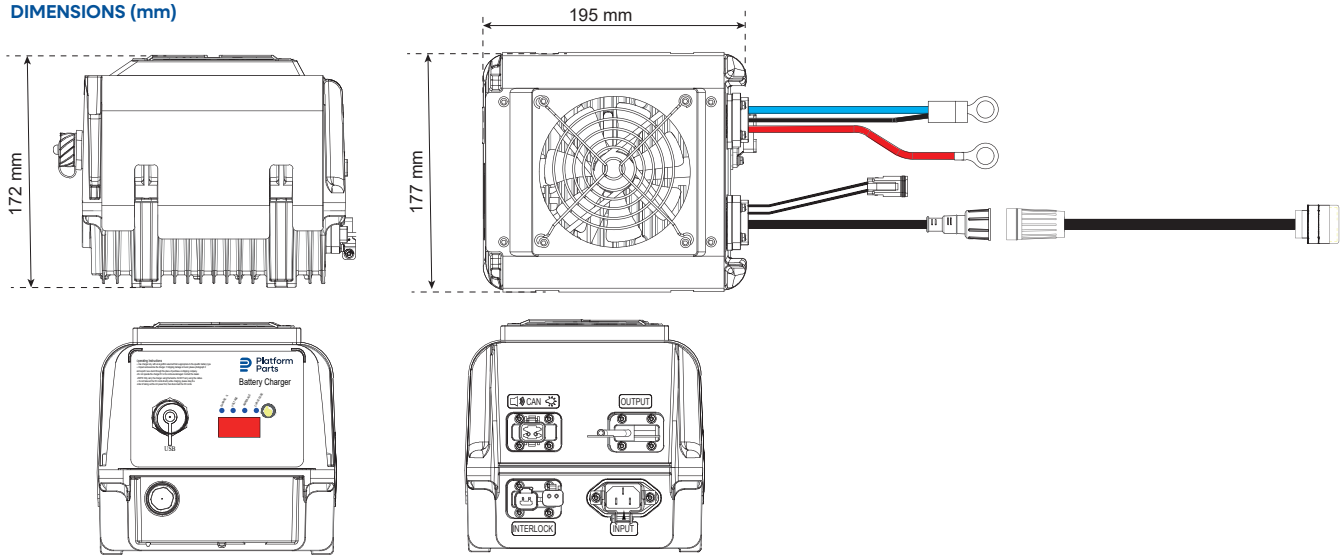
Lead Acid /Gel/ AGM / Lithium-ion



(Photo for reference)

REFERENCE NUMBER	BC-48V30A75
OEM NUMBER	GE-128375

1 DIMENSIONS (mm)



2 SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Battery Type	Lead-acid / Gel AGM / Lithium-ion
Cooling	Air Cooling
Weight	5.82 kg

ELECTRICAL SPECIFICATIONS

Input voltage AC	100/240V
AC input connector	IEC 320/C14 (cord not included)
Output	48V/30A
Input frequency	50/60Hz

ENVIRONMENTAL SPECIFICATIONS

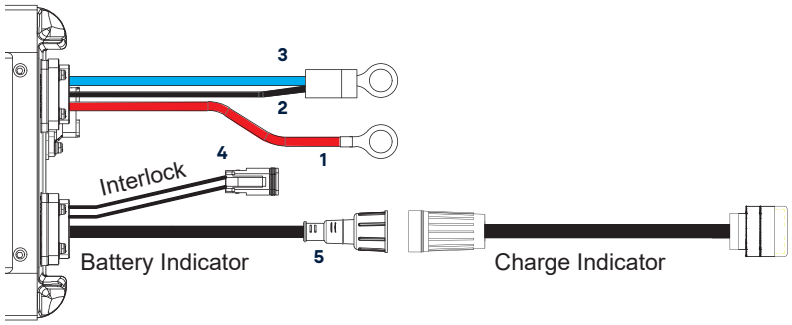
Operating temperature	-40°C ~ +65°C
Storage temperature	-40°C ~ +85°C
Protection rating	IP66

3 CONNECTIONS

HANDLE WIRING

PORT	COLOR	FUNCTION
1	Red	Connector Battery Positive
2	Black	Connector Battery Negative
3	Blue	Temperature sensor
4	Black	Interlock
5	Black	Indicator

CONNECTORS



4 INSTALLATION & OPERATION

WIRING

48V BATTERY Power off. Battery disconnected.
Connect the red cable **(1)** to the positive terminal.
Connect the black cable **(2)** to the negative terminal.

INDICATOR 3-wire connector **(5)**
Connect it to the supplied charge indicator (see illustration below).

INTERLOCK 2-wire connector **(4)**
Connect the interlock to the machine's interlock circuit.

POWER The charger accepts 110-240V.

RECOMMENDED CONNECTION SEQUENCE

A. Secure the charger in place.

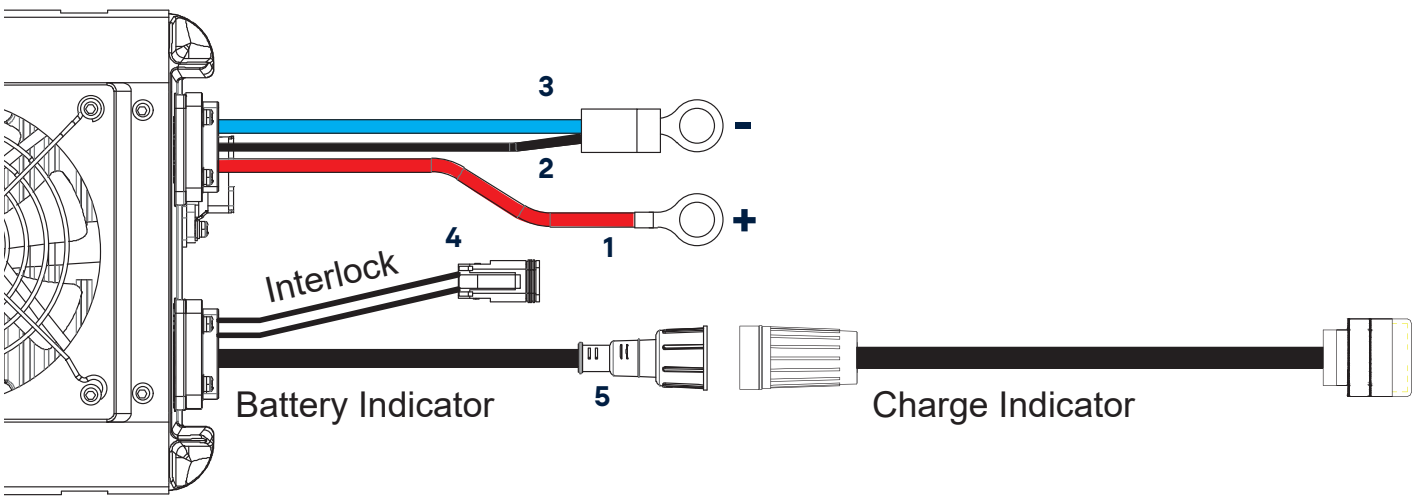
B. Connect the **red wire (1)** to the positive terminal.

C. Connect the **black wire (2)** to the negative terminal.

D. Connect the **battery indicator** connector to the supplied **charge indicator.**

E. Connect the **interlock** to the machine's interlock circuit.

F. Connect the 110/240V power last.



5 MAINTENANCE INSTRUCTIONS

1. Disconnect the charger from both the AC and DC supply before cleaning, moving, maintaining or repairing it.
2. Do not expose the charger to oil, dirt, mud or direct high-pressure water spray when cleaning the vehicle or machine.
3. The charger enclosure is rated IP67 (dust-tight and protected against powerful water jets). The mated AC inlet connection is rated IP20 only and is not protected against water. Protect the AC connection when the charger is used in wet or dusty environments.
4. There is no AC power cord supplied with the charger. Use a suitable power cord with the correct plug type for your region and with electrical ratings appropriate for the charger's AC input.
   - North America: CEC, FCC, ETL
   - Europe: CE
   - Other regions: safety-approved detachable cord, rated for industrial use.

   The cord set must have a grounding-type connector on one end, suitable for use in the country of destination. Do not use the charger if the AC power cord or the DC output cables are damaged: replace them.
5. Before charging, check that the charger is compatible with the batteries. Do NOT use the charger if the charger or its cables are damaged.
6. Only carry the charger by its handle. Do NOT carry it by the cables.
7. Wear gloves when touching the heat sinks during charging.
8. To stop charging, do NOT disconnect the DC cables first. Always unplug the AC power first, then disconnect the DC cables.

6 LED STATUS & TROUBLESHOOTING



INDICATOR	DESCRIPTION	SOLUTION
	Monitor Voltage and Capacity	Press the select button for 1 sec while unplugging the AC power with the battery terminal connected
	Enter the EQ charging mode	Press the select button for 10 sec until the display panel shows "EQ" .
	Quit the EQ charging mode	Hold the button for 10 sec. untill it shows "off".
BNS	**Firmware**	Contact us to upgrade the firmware.
E01 bAt	**- Wrong batteries - Short circuit - Reverse polarity**	- Make sure the battery pack is connected correctly. - Make sure the stabilized power supply is connected correctly. - Check each paralleled cell is undamaged.
E02 AC	**Incorrect InputVoltage**	Check the AC source. Connect the AC power cord between the stabilized power supply and the AC outlet. Possible cause: an undersized generator or severely undersized input cables. Plug the charger to the AC source with stable AC voltage between 100-240VAC / 45-65 Hz. Make sure that the AC plug is tightly inserted in the AC socket and there is no looseness.
E03Hot	**High temperature Protection (Internal Over-Temperature, charger poweroff)**	If the internal or ambient temperature is too high, the charger will shut down and enter the high temperature protection mode. Put the charger in a well-ventilated environment. Disconnect the charger and wait 15-20 minutes before re-plugging and charging..
E04 bAt	**Battery High Temperature Protection**	Possible cause: High battery temperature. When the battery temperature exceeds the preset value, the charger will stop charging to prevent from overheating. The charger will automatically restart when the battery temperature is coming back to normal.
E05Err	**Over Output Current**	Contact us.
E06bAt	**The battery-voltage are too high.**	Check the battery volts are normal, shouldbelower than 36volts.
E00	**Hardware Failure**	Contact us.
E13	**Chip Communication Failure**	Contact us.

7 SAFETY INSTRUCTIONS

⚠ WARNING

Use this charger only with a charging algorithm suited to the specific battery type; any other use may cause injury and damage. Lead-acid batteries can produce explosive hydrogen gas during normal operation. Keep sparks, flames and smoking materials away and provide adequate ventilation while charging. Leave at least 1" of clearance on both sides of the charger and keep both ends free for the cables and indicator lights. Never charge a frozen or non-rechargeable battery. Follow all precautions of the battery manufacturer (e.g. maximum charge rates, removing cell caps).

⚠ DANGER

Risk of electric shock.
Connect the charger power cord to an outlet that is properly installed and grounded in accordance with all local codes and regulations. A grounded outlet is required to reduce the risk of electric shock: do not use ground adapters and do not modify the plug. Do not touch uninsulated parts of the output connector or uninsulated battery terminals. Disconnect the AC supply before connecting or disconnecting the battery. Do not open or disassemble the charger. Do not use the charger if the AC power cord is damaged, or if the charger has received a sharp blow, has been dropped or is damaged in any other way. Refer all repairs to the manufacturer or to qualified personnel. This charger is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or with a lack of experience and knowledge of electrical systems and battery charging, unless they are supervised or have been instructed in the use of the charger by a person responsible for their safety. Children must be supervised to ensure that they do not play with the charger.