

EVOLUTION CHARGER

This manual contains important safety and operating instructions for Evolution charger, please read this information before using Evolution charger for lithium-ion battery.
 Evolution has two models of lithium-ion battery charger.



Evolution Lithium-ion Battery Charger Data Table

Charger Model	C4825
Input Voltage range(V)	220V±15%
Input Current (A)	≤9A
Efficiency	≥93%
Rated output voltage(V)	48V
Max output current(A)	25A
Max power (W)	1200W
Battery Model	Lithium battey pack L4860/110/130/165 &180

⚠ DANGER

DANGER: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY READ AND FOLLOW THESE IMPORTANT SAFETY AND OPERATING INSTRUCTIONS BEFORE INSTALLING OR OPERATING THE CHARGER.

DANGER: RISK OF ELECTRIC SHOCK. DISCONNECT CHARGER FROM BATTERY AND AC POWER BEFORE SERVICING. TURNING OFF THE CHARGER DOES NOT REDUCE THIS RISK.

DANGER: TO PREVENT ELECTRICAL SHOCK, DO NOT TOUCH EITHER AC OR DC UNINSULATED PARTS. MAKE SURE ALL ELECTRICAL CONNECTORS ARE IN GOOD WORKING CONDITION. DO NOT USE CONNECTORS THAT ARE CRACKED, CORRODED OR DO NOT MAKE ADEQUATE ELECTRICAL CONTACT. USE OF A DAMAGED OR DEFECTIVE CONNECTOR MAY RESULT IN A RISK OF OVERHEATING OR ELECTRIC SHOCK.

⚠ WARNING

WARNING: TO REDUCE THE RISK OF FIRE, INSTALL THIS BATTERY CHARGER ON A SURFACE OF NON-COMBUSTIBLE MATERIAL SUCH AS BRICK, CONCRETE, OR METAL.

Operation Instructions

➤ Charger LED Display



LED Light		Indication
	Red LED light solids on or flashing	Charging
	Solid Green light	Charge completely
	Red and Green flashing in order	Refer to the Troubleshooting table

➤ Troubleshooting Instruction

If a fault occurs, count the number of red flashes between pauses and refer to the table below.



Flashes ("—" means pause 1s)	Cause	Solution
	No load	Check if these happen:the connection of battery and charger is loose, the battery defective, or the battery voltage is too low.
	Over voltage or over current	If the error opens again after restart ,return it to factory repair.
	The ambient temperature is too high or too low	Please check if the ambient temperature is too high and if ventilation is good and the position of battery temperature sensor.
	Charger overheating	Please check whether ambient temperature is too high and if ventilation is good.
	Output Under- Voltage	Please return it to the factory. Replace new charger
	Input AC abnormality	Please check the input voltage and the plug poor contact.
	Anyone of the above-mentioned faults repeats five times, then it appears.	Re-up electricity, match the indicator state to the above-mentioned faults then get the corresponding solution.