



Universal BATTERY CHARGER – User’s Manual

We Thank You for choosing Systemlar battery charger. Systemlar battery charger is designed to properly charge the battery packs and ensure the battery packs do not get over-charged. The battery charger ensures proper battery charging current in wide input Main voltage range (AC 130V – 290V). The battery charger is Power Factor corrected and has up to 4KV surge protection. Systemlar battery chargers are designed to provide long service life and accurate battery charging to enhance battery life. We hope that we will be able to surpass your expectations with our product.

Operation Instructions:

1. With the **Mains power OFF**, first select the battery type to be charged using the rotating knob on front panel of battery charger. Kindly, ensure that correct battery type is selected.
2. Connect the battery pack to battery charger clamps. Ensure correct polarity connections (**Red** wire on battery pack to Positive terminal and **Black** wire on battery pack to Negative terminal)
3. Also ensure that there is no loose connection of battery wires on terminal block. Loose wire connections can lead to sparking and damage the equipment / battery pack
4. Once battery pack has been connected to the charger, **SWITCH ON** the Mains supply to charger. The charging indication **Green** LED will start blinking. LED blinking indicates that battery is being charged.
5. Once battery gets fully charged, the **Green** charging LED will glow solid. Now Mains supply to battery charger can be switched off and battery pack can be disconnected from battery charging clamps.
6. Multiple battery packs (only of same type of battery) can also be connected in parallel to each other. Kindly make sure that correct terminals are connected together(**Red** wire (positive terminal) connected to **Red** wire, **Black** (negative terminal) connected to **Black** wire)
7. Since the battery charger is designed to provide maximum 5A of charging current, connecting battery packs in parallel will increase the charging time.



Technical Specifications

Input Voltage Range	130V - 290V AC 50Hz		
Protections	Battery high voltage cut-off protection, Safe battery-less operation, Power Factor correction, Input Surge protection up to 4KV		
Indications	GREEN LED blinking – Battery charging GREEN LED glows solid – Battery charging complete		
Battery Type	End of Charge Voltage	Absorption charge time	Trickle Charge Voltage
Lithium-ion 11.1V	12.6V	60 minutes	12.4V
Lithium-ion 14.8V	16.8V	60 minutes	16.5V
LiFePO4 12.8V	14.6V	5 minutes	14.2V
Lead Acid – Flat Cell	14.4V	60 minutes	13.6V
Lead Acid – Gel / Tubular	14.8V	60 minutes	13.8V