



# ROYPOW Original Chargers

for Golf Cart, Aerial Work Platform, and Floor Cleaning Machine Batteries

Smart, Powerful and Safe!

Optimal battery performance and the best communication between batteries and chargers.



### Safe Charging

Advanced charge algorithms and multiple protections

### Forced Air Cooling

For better heat dissipation to extend the lifespan

### Anti-Walking Function

The vehicle cannot drive off while charging

### Intelligent Management

BMS controls the battery charging intelligently

### Corrosion & Vibration Resistance

Durable aluminum alloy design with IP67 rating

### App Monitoring via Bluetooth

Support real-time monitoring and firmware upgrades

## Technical Specifications

| Model                                          | CHG4850F                                                                                                                                                                     | CHG7235F                          | CHG2450F                                                  | CHG4830F                         | CHG7220F                         | CHG5820F                                                   | CHG2430F                                                   | CHG3620F      | CHG4815F      | CHG7210F      | CHG1220F                                             | CHG2412F      | CHG3608F      | CHG4806F      |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------|----------------------------------|----------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------|---------------|---------------|------------------------------------------------------|---------------|---------------|---------------|
| Power Supply                                   |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | Single Phase                                               |               |               |               |                                                      |               |               |               |
| Rated Input Voltage                            |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | 110/230Vac                                                 |               |               |               |                                                      |               |               |               |
| Charger Input Current                          | <16A@230Vac<br><18A@120Vac                                                                                                                                                   |                                   | <15A                                                      |                                  |                                  | <11A                                                       | <10A                                                       |               |               |               | <5A                                                  |               |               |               |
| Input Voltage Range                            |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | 100~240Vac                                                 |               |               |               |                                                      |               |               |               |
| AC Grid Frequency                              |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | 47Hz~63Hz                                                  |               |               |               |                                                      |               |               |               |
| Power Factor                                   |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | ≥0.99                                                      |               |               |               |                                                      |               |               |               |
| String Number of LiFePO <sub>4</sub> Batteries | 16S                                                                                                                                                                          | 24S                               | 8S                                                        | 16S                              | 24S                              | 16S                                                        | 8S                                                         | 12S           | 16S           | 24S           | 4S                                                   | 8S            | 12S           | 16S           |
| Output Power                                   | 1680W(@120Vac)<br>2800W(@230Vac)                                                                                                                                             | 1680W[(@120Vac)<br>2940W(@230Vac) | 1100W(@120Vac)<br>1400W(@230Vac)                          | 1200W(@120Vac)<br>1680W(@230Vac) | 1200W(@120Vac)<br>1680W(@230Vac) | 1100W                                                      | 850W                                                       |               |               |               | 280W                                                 | 340W          | 340W          | 340W          |
| Rated Output Voltage                           | 40Vdc~58.4Vdc                                                                                                                                                                | 60Vdc~87.6Vdc                     | 20Vdc~29.2Vdc                                             | 40Vdc~58.4Vdc                    | 60Vdc~87.6Vdc                    | 40Vdc~58.4Vdc                                              | 20Vdc~29.2Vdc                                              | 30Vdc~43.8Vdc | 40Vdc~58.4Vdc | 60Vdc~87.6Vdc | 10Vdc~14.6Vdc                                        | 20Vdc~29.2Vdc | 30Vdc~43.8Vdc | 40Vdc~58.4Vdc |
| Output Current                                 | 50A                                                                                                                                                                          | 35A                               | 50A                                                       | 30A                              | 20A                              | 20A                                                        | 30A                                                        | 20A           | 15A           | 10A           | 20A                                                  | 12A           | 8A            | 6A            |
| Efficiency                                     | ≥93%                                                                                                                                                                         | ≥93%                              | ≥93%                                                      | ≥94%                             | ≥94%                             | ≥92%                                                       | ≥92%                                                       | ≥92%          | ≥92%          | ≥92%          | ≥86%                                                 | ≥90%          | ≥90%          | ≥90%          |
| Protection                                     | Battery Reverse Polarity Protection, Output Short Circuit Protection, Output Over/Under Voltage Protection, Over-Temperature Protection, Input Over/Under Voltage Protection |                                   |                                                           |                                  |                                  |                                                            |                                                            |               |               |               |                                                      |               |               |               |
| Ingress Rating                                 |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | IP67 (NEMA4)                                               |               |               |               |                                                      |               |               |               |
| Working Temperature                            |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | -15°C~40°C (5°F~104°F)                                     |               |               |               |                                                      |               |               |               |
| Storage Temperature                            |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | -30°C~75°C (-22°F~167°F)                                   |               |               |               |                                                      |               |               |               |
| Relative Humidity                              |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | 0~95% (No Condensation)                                    |               |               |               |                                                      |               |               |               |
| Altitude (m)                                   |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | 2000m (>2000m Derating)                                    |               |               |               |                                                      |               |               |               |
| Cooling Mode                                   |                                                                                                                                                                              |                                   |                                                           |                                  |                                  |                                                            | Forced Air Cooling                                         |               |               |               |                                                      |               |               |               |
| Dimension (L x W x H)                          | 13.15×8.27×4.29 inch<br>(334×210×109 mm) Without Handle                                                                                                                      |                                   | 11.8×7.04×3.46 inch<br>(299.8×178.8×88 mm) Without Handle |                                  |                                  | 10.11×5.63×3.56 inch<br>(256.8×143×90.5 mm) Without Handle | 10.11×5.63×3.56 inch<br>(256.8×143×90.5 mm) Without Handle |               |               |               | 7.2×4.69×2.48 inch<br>(183×119×63 mm) Without Handle |               |               |               |
| Weight                                         | 14.33 lbs<br>(6.5 kg)                                                                                                                                                        |                                   | 12.13 lbs<br>(5.5 kg)                                     |                                  |                                  | 7.72 lbs<br>(3.5kg)                                        | 7.72 lbs<br>(3.5kg)                                        |               |               |               | 4.41 lbs<br>(2kg)                                    |               |               |               |

All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions.



sales@roypow.com

www.roypow.com