



## EQ 750



Intelligent design for charging AGM, GEL, Flooded and Lithium batteries, the EQ750 Charger is available in on- and off-board configurations. Optional CAN bus communication ensures seamless machine integration and AC/DC cabling is completely customizable.

### Main applications:



#### High Reliability

Engineered using design for reliability. Validated for long service life in harsh operating conditions. Tested to perform reliably and durably in automotive applications. Manufactured in a world class facility specializing in high reliability solutions.



#### USB datalog & Machine Integration

Assists machine troubleshooting with built - in charge cycle tracking. Download data / upgrade software through USB host port. Optional CAN bus communication enables deep machine integration, diagnostics and control.



#### Premium charging Quality

Charge profiles to precisely charge AGM, GEL, Flooded and Li-ion batteries. Developed in PowerFirst's battery lab to balance charge time, battery life and application requirements.



#### Global + Efficient

Capable of operating reliably on any single-phase grid worldwide. High-efficiency performance for electricity savings and shorter charge times. Active cooling enables optimal peak performance.

## EQ 750 Charger Specifications

| DC Output                                 | 24 VDC                                | 36 VDC | 48 VDC |
|-------------------------------------------|---------------------------------------|--------|--------|
| Maximum DC output voltage                 | 36 V                                  | 54 V   | 72 V   |
| Maximum DC output current                 | 30 A                                  | 20 A   | 15 A   |
| Maximum DC output power                   | 750 W                                 |        |        |
| Deep discharge recovery (minimum voltage) | 16 V                                  | 24 V   | 32 V   |
| Maximum C3 interlock current              | 7 A                                   |        |        |
| Battery type                              | Lead acid (wet / AGM / gel), lithium  |        |        |
| Reverse polarity                          | Electronic protection with auto-reset |        |        |
| Short circuit                             | Electronic current limit              |        |        |

| AC Input                   |                                      |
|----------------------------|--------------------------------------|
| AC input voltage range     | 85-270 VAC                           |
| Nominal AC input voltage   | 100-240 VAC                          |
| Nominal AC input frequency | 50 / 60 Hz                           |
| Maximum AC input current   | 8.5 A                                |
| Nominal AC input current   | 8.5 A @ 100 VAC      4.8 A @ 240 VAC |
| Power factor               | >0.99 @ 120 VAC      >0.98 @ 230 VAC |

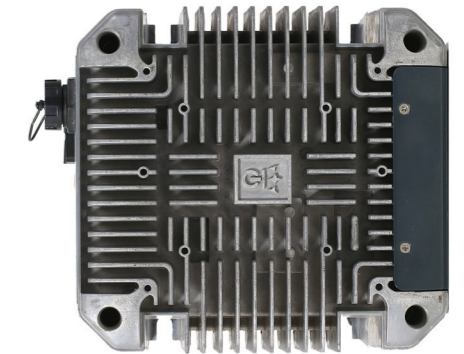
| Regulatory      |                                                                                                                       |
|-----------------|-----------------------------------------------------------------------------------------------------------------------|
| Efficiency      | 90% at full load, 120 VAC, 48 VDC   92% at full load, 240 VAC, 48 VDC<br>California Energy Commission (CEC) compliant |
| Safety (LVD)    | UL1564, CSA 107.2, EN 60335-2-29                                                                                      |
| Emissions (EMC) | FCC Part 15 / ICES 003 Class A, EN55014-1, EN 61000-3-2                                                               |
| Immunity (EMC)  | EN 55014-2, EN 61000-6-2                                                                                              |

| Mechanical          |                                                              |
|---------------------|--------------------------------------------------------------|
| Dimensions          | L195 x W180 x H160 mm                                        |
| Weight              | 5 kg                                                         |
| AC input connector  | IEC320 / C14 (requires country-specific cord)                |
| DC output connector | M6 threaded fasteners for ring terminals (field replaceable) |
| Service port        | Sealed (IP66) USB 2.0 Host Port (Type A) with dust cover     |
| Mounting holes      | 8.4 mm (1/4") diameter slots                                 |
| Cooling             | convection cooling                                           |

| Environmental                |                                      |
|------------------------------|--------------------------------------|
| Enclosure                    | IP66 (NEMA4)                         |
| Mechanical shock & vibration | GMW3172                              |
| Corrosion & humidity         |                                      |
| Thermal fatigue              |                                      |
| Operating temperature        | -20°C to +40°C      Derated at >40°C |
| Storage temperature          | -40°C to +85°C                       |

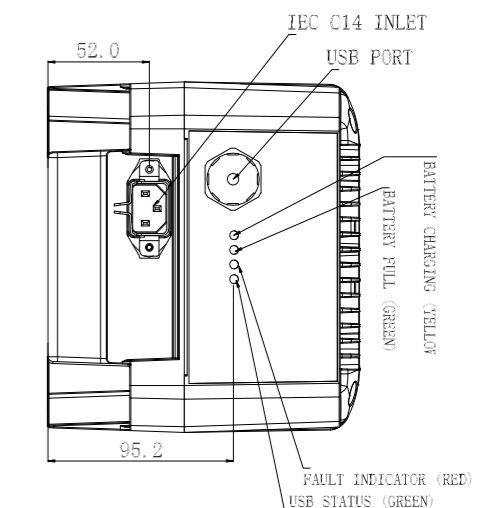
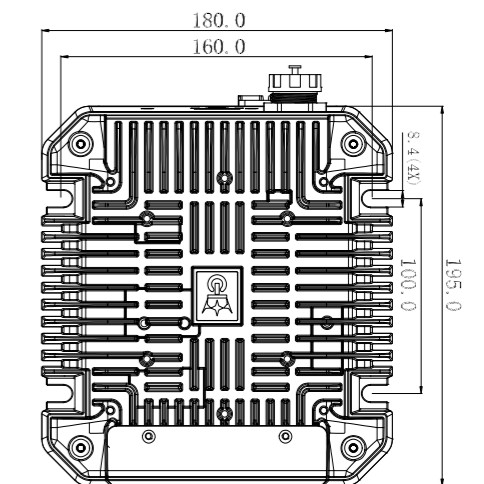
Visit [epowerfirst.com/charger/EQ-family/](http://epowerfirst.com/charger/EQ-family/) to view the complete product datasheet.

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#### Highlighted Features:

- Optional CAN bus, RS485, PC, Wi-Fi, Bluetooth communication for machine integration or lithiumBMS.
- User friendly LED indicators for AC source, battery status, charging, error.
- Field programmable with up to 30 charge profiles
- Auto-recharge for low voltage in maintenance mode
- OEM customizable & field replaceable AC/DC cabling
- Additional portable handle available



Request more Information

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