

PowerFirst

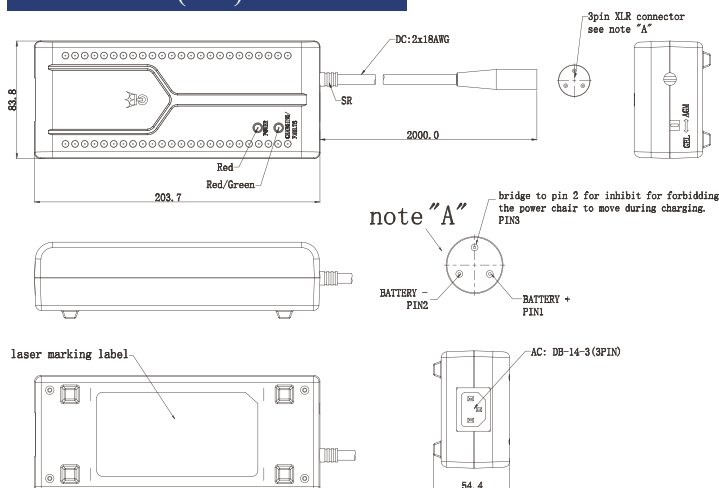
A Global Leader in Charger Manufacture



HQ150-2405 Specification

Input Voltage	100 - 240Vac +/-10%
Input Frequency	50 - 60Hz
Output Current	
Fast Charge (AGM)	DC 29.6V (+/- 0.2V)
Float Charge (AGM)	DC 27.3V
Fast Charge (GEL)	DC 28.8V (+/- 0.2V)
Float Charge (GEL)	DC 26.7V
Charging Current	
Fast Charge	DC 5A +/- 10%
Float Charge	<DC 800mA
Maintenance Stage	Auto-Restart@25.3VDC
Over Voltage Protection	DC 31V Max.
Over Current Protection	DC 6A Max.
Leakage Current	0.75mA Max.
Input Power	180W
Input Standby Power	<0.5W
Efficiency	>85% @ Full Load
Battery Charging Capacity	15 - 50 Amp Hours
Output Cord	2m long, SJT type (Hard Usage) with XLR 3-pin Male Connector
Dielectric Withstand Voltage	AC 3.0KV for 1 min. @ 10mA leakage
Insulation Resistance	50Mohm Min. at 500Vdc between Primary and Secondary
Operation Temperature	0°C to 40°C
Storage Temperature	-20°C to 60°C
Safety Standards	IEC/EN 60335-2-29, BS EN 60335-2-29, UL 1012, CSA C22.2#107.2, EN 55014-1, EN 55014-2, IEC/EN 61000-3-2, IEC/EN 61000-3-3, AS/NZS CISPR 14.1-2013, ISO 7176-21, ISO 7176-25, ISO 7176-14, ISO 7176-15, DOE 10 CFR 430.32(z), CEC-140-2019-002

Dimensions: (mm)



VERIFIED BY:
Registrar Corp
2022 U.S. FDA REGISTRATION
FDA REGISTRATION NUMBER: 3010142064

24V
5A



2 LEDs for Status Indication

1. Power LED (Clear Lens - Red Color)

Description	LED
Power On	On
No AC Power	Off

2. Charging / Faults - LED (Clear Lens - Red / Green Color)

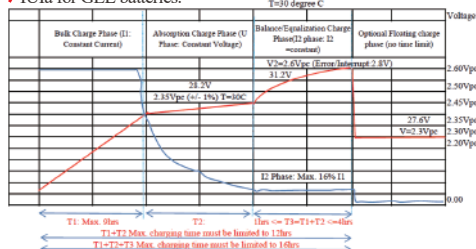
Charging - Description	Red LED	Green LED
No Battery/Full Charge (20 Hrs)	Off	Off
Bulk/Absorption Charge	On	Off
Float Charge	Off	Continuous Blinking
Maintenance Charge	Off	On Steady

INDICATION CHARGE/FAULT - Red LED		FAULT
1	LED is off.	No batteries - Voltage < 9V
2	LED - continuous rapid flashing	12 hr. charge timed out
3	LED-1 flashes every 3 sec.	Battery voltage < 14V
4	LED-2 flashes every 3 sec.	Batteries are connected in reverse polarity
5	LED-3 flashes every 3 sec.	Over voltage from batteries
6	LED-4 flashes every 3 sec.	Over current from charger

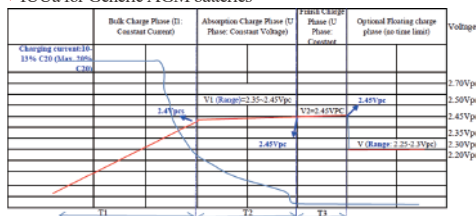
Selectable DIP-Switch for GEL and AGM charging algorithm

The factory standard version support AGM and GEL, default set to charge AGM. For charging GEL batteries, move the DIP-Switch on the front end of the charger to the GEL position. Besides AGM and GEL, other Flooded and Lithium batteries charging algorithm are available per request.

IIUA for GEL batteries.



IIUA for Generic AGM batteries



Protections:

- Short Circuit Protection
- Over Temperature Protection
- Over Current Protection
- Battery Polarity Reversal
- Over Voltage Protection
- Surge Protection

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