

**Specification**

|                                     |                                                                                                                                                                                                                                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Input Voltage</b>                | 100 - 240Vac +/-10%                                                                                                                                                                                                                             |
| <b>Input Frequency</b>              | 50 - 60Hz                                                                                                                                                                                                                                       |
| <b>Output Voltage</b>               |                                                                                                                                                                                                                                                 |
| Fast Charge (AGM)                   | DC 29.6V (+/- 0.2V)                                                                                                                                                                                                                             |
| Float Charge (AGM)                  | DC 27.4V (+/- 0.2V)                                                                                                                                                                                                                             |
| Fast Charge (GEL)                   | DC 28.6V (+/- 0.2V)                                                                                                                                                                                                                             |
| Float Charge (GEL)                  | DC 26.6V (+/- 0.2V)                                                                                                                                                                                                                             |
| <b>Charging Current</b>             |                                                                                                                                                                                                                                                 |
| Fast Charge                         | DC 5000mA +/- 5%                                                                                                                                                                                                                                |
| Float Charge                        | <DC 1000mA                                                                                                                                                                                                                                      |
| Maintenance Stage                   | Auto-Restart @ 25.3VDC                                                                                                                                                                                                                          |
| <b>Over Voltage Protection</b>      | DC 31V Max.                                                                                                                                                                                                                                     |
| <b>Over Current Protection</b>      | DC 6A Max.                                                                                                                                                                                                                                      |
| <b>Leakage Current</b>              | 0.75mA Max.                                                                                                                                                                                                                                     |
| <b>Input Power</b>                  | 180W                                                                                                                                                                                                                                            |
| <b>Input Standby Power</b>          | <0.5W                                                                                                                                                                                                                                           |
| <b>Efficiency</b>                   | >85% @ Full Load                                                                                                                                                                                                                                |
| <b>Battery Charging Capacity</b>    | 15 - 50 Amp Hours                                                                                                                                                                                                                               |
| <b>Output Cord</b>                  | 1.8m long, SJT type (Hard Usage) with XLR 3-pin Male Connector                                                                                                                                                                                  |
| <b>Dielectric Withstand Voltage</b> | AC 3.0KV for 1 min. @ 10mA leakage                                                                                                                                                                                                              |
| <b>Insulation Resistance</b>        | 50Mohm Min. at 500Vdc between Primary and Secondary                                                                                                                                                                                             |
| <b>Operation Temperature</b>        | -13°F/-25°C to +122°F/50°C                                                                                                                                                                                                                      |
| <b>Storage Temperature</b>          | -13°F/-25°C to +140°F/60°C                                                                                                                                                                                                                      |
| <b>Safety Standards</b>             | The charger shall meet the requirements of UL 1012 special purpose, ISO 7176 -14, ISO 7176 - 21, ISO 7176 - 25, off-board IPX 1, RESNA WC - 2, EN12184. Efficiency certified to DOE and CEC requirements per 10 CFR 430, subpart B, appendix Y. |



Due to continuous improvements to our products, product may vary slightly from depiction.

**2 LEDs for Status Indication**

**1. Power LED (Clear Lens - Red Color)**

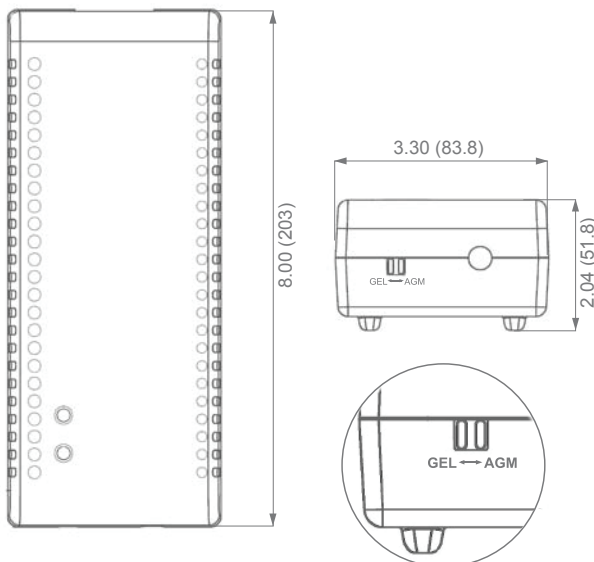
| Description | LED |
|-------------|-----|
| Power On    | On  |
| No AC Power | Off |

**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<br>CHARGE/FAULT - Red LED |                        | FAULT                                       |
|--------------------------------------|------------------------|---------------------------------------------|
| 1                                    | Off                    | No batteries - Voltage < 9V                 |
| 2                                    | Continuous flashing    | 12 hr. charge timed out                     |
| 3                                    | 1 flash every 3 sec.   | Battery voltage < 14V                       |
| 4                                    | 2 flashes every 3 sec. | Batteries are connected in reverse polarity |
| 5                                    | 3 flashes every 3 sec. | Over voltage from batteries                 |
| 6                                    | 4 flashes every 3 sec. | Over current from charger                   |

**Dimensions: inches (mm)**



**Features:**

The factory default for this charger is set to charge AGM batteries. To charge GEL batteries move the switch located on the front end of the charger to the GEL position.

For **AGM** batteries the charger provides Three Charge States. An integrated circuit monitors and controls both the output voltage and current of the charger through three separate charge states.

1. A *HighCurrent Fast Charge State*: battery charges at 5000mA fast charge current rate until battery voltage of 29.6V is reached.
2. A *Topping Charge State*: battery charges at 29.6V constant voltage and current begins to taper until current is less than 1000mA.
3. A *Precision Float Charge State*: the charger changes to the float state and holds the battery voltage at 27.4V.

For **GEL** batteries the charger provides Three Charge States. An integrated circuit monitors and controls both the output voltage and current of the charger through three separate charge states.

1. A *HighCurrent Fast Charge State*: battery charges at 5000mA fast charge current rate until battery voltage of 28.6V is reached.
2. A *Topping Charge State*: battery charges at 28.6V constant voltage and current begins to taper until current is less than 1000mA.
3. A *Precision Float Charge State*: the charger changes to the float state and holds the battery voltage at 26.6V.

**Note:** To meet the mandate of DOE, this charger turns off after 20 hours of continuous operation. For battery maintenance this battery is equipped with "Auto-Restart" that will start the charge cycle again when battery voltage drops to 25.3VDC.

**Protections:**

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

UPG is ISO 9001 Certified.  
All specifications are subject to change without notice.



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