## FREEDOM HFS SINE WAVE

INVERTER/CHARGER



Pure sine wave 120 Vac inverter/charger with built-in transfer switch. Designed for recreational and commercial applications.

## Available in:



2000 W 55 A



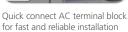
The new generation Freedom HFS is equipped with quick-connect AC terminals, ignition control capability and programmable smart battery management logic. The quick-connect AC terminal on both AC input and output enables incredibly easy installation. The ignition control feature minimizes unintended battery drain. The new Freedom HFS is designed for cold harsh winter environment with temperature performance down to -20°C.

The Freedom HFS Inverter/Charger features pure sine wave output and is designed to operate sensitive electronics like entertainment systems and appliances in boats, RV's and commercial trucks. The Freedom HFS is available in two models: 1000 watts with a 55-amp charger and a 2000 watts with a 55-amp charger.

#### **Product Features**

- » 1000 / 2000 watts continuous AC power
- » Powerful fast charging 55 amp, 12 Vdc multi-stage charger
- » 2X continuous power surge for demanding loads
- » Cold temperature performance to 20°C for the harsh winter environments.
- » Quality, safety and reliability that meets stringent CSA and UL458 with marine supplement standard
- » Configurable Ignition control that helps to minimize battery drain







Detachable remote panel for convenient system status monitoring

#### **Protection Features**

- » Programmable Smart Battery Management logic to facilitate extended battery use & life.
- » Overload, over temperature, under/over voltage protection

#### Applications:







Heavy duty

Recreational

Work

vehicles





coaches



vehicles



Certified to CSA Standard C22.2 No. 107.1 and UL 458 with Marine\* Supplement

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# FREEDOM HFS SINEWAVE

### INVERTER/CHARGER



| Electrical specifications – inverter           | HFS 1000         | HFS 2000         |
|--|------------------|------------------|
| Output power (continuous)                      | 1000 W           | 2000 W           |
| Surge rating                                   | 2000 W           | 4000 W           |
| Output current (continuous)                    | 16.9 A           | 16.9 A           |
| Output voltage                                 | 120 VAC +/- 10 % | 120 VAC +/- 10 % |
| Output frequency regulation                    | 60 Hz            | 60 Hz            |
| Inverter voltage regulation                    | 115 +/-10 Vrms   | 115 +/-10 Vrms   |
| Output wave form                               | Pure sine wave   | Pure sine wave   |
| Efficiency (full load)                         | > 80%            | > 80%            |
| Peak efficiency                                | 87%              | 87%              |
| No-load input power (producing output voltage) | < 10 W           | < 10 W           |
| Off mode current draw (display off)            | < 1 mA           | < 1 mA           |

| Charge rate                                  | 55 A                                      | 55A                                       |
|--|---|---|
| AC input voltage range                       | 90 – 130 Vac                              | 90 – 130 Vac                              |
| AC transfer relay                            | 30 A                                      | 30 A                                      |
| Power draw in stand-by mode                  | < 9 W                                     | < 9 W                                     |
| Input opearating voltage range               | 10.5 - 16.5 Vdc                           |   |
| Transfer time                                | < 40 ms                                   | < 40 ms                                   |
| Battery voltage (nominal)                    | 12 Vdc                                    | 12 Vdc                                    |
| Operating voltage range                      | 10.5 – 16.5 Vdc                           | 10.5 – 16.5 Vdc                           |
| Low battery cut-out (low / mid / high limit) | 10.5 Vdc / 11.8 Vdc / 12.1 Vdc            | 10.5 Vdc / 11.8 Vdc / 12.1 Vdc            |
| AC input (max. charge)                       | 10 Aac                                    | 10 Aac                                    |
| AC receptables                               | 15 A GFCI                                 | 20 A GFCI                                 |
| Default bulk charge voltage setting          | 14.2 Vdc                                  | 14.2 Vdc                                  |
| Default float charge voltage setting         | 13.5 Vdc                                  | 13.5 Vdc                                  |
| Battery charge outputs                       | One                                       | One                                       |
| Charge control                               | Three-stage                               | Three-stage                               |
| Battery type settings                        | Flooded / gel / AGM / fixed (11 - 17 Vdc) | Flooded / gel / AGM / fixed (11 - 17 Vdc) |
| Equalization                                 | No  | No  |
| Internal temperature-sensitive charging      | Yes                                       | Yes                                       |
|  |   |   |

| General specifications              |   |   |
|-------------------------------------|---|---|
| Optimal operating temperature range | 32°F to 104°F (0°C to 40°C)               | 32°F to 104°F (0°C to 40°C)               |
| Storage temperature range           | -4°F to 104°F (-20°C to 40°C)             | -4°F to 104°F (-20°C to 40°C)             |
| Optional remotes                    | Detachable display                        | Detachable display                        |
| Unit weight                         | 10 lb (4.5 kg)                            | 10 lb (4.5 kg)                            |
| Unit dimensions (H x W x L)         | 5.11 x 9.37 x 19.29" (130 x 238 x 490 mm) | 5.11 x 9.37 x 19.29" (130 x 238 x 490 mm) |
| Warranty                            | Two year                                  | Two year                                  |
| Part number                         | 807-1055                                  | 807-2055                                  |

#### Regulatory and environmental compliance

ETL Certified to CSA Standard C22.2 No. 107.1, UL458 with marine supplement (drip shield, part # 808-1050).

Specifications are subject to change without notice.