

FREEDOM HFS **SINE WAVE**

INVERTER/CHARGER

xantrex[™]
Smart choice for power[™]

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

Available in:

1000 W
55 A

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



Quick connect AC terminal block for fast and reliable installation



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:



Recreational vehicles



Marine



Heavy duty trucks



Work vehicles



Buses / coaches



Specialty vehicles



Intertek

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

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FREEDOM HFS SINE WAVE

INVERTER/CHARGER

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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

Electrical specifications – charger		
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 operating 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.