



Trusted solution in RV inverter/ chargers, economical and dependable

Available in:

2000 W 100 A





Installed in RVs for almost two decades, this inverter/charger has proven itself, with filtered modified sine wave output, Freedom 458 inverter/chargers run most loads, from office equipment to household appliances and electronics.

Temperature controlled multi-stage charging ensures that your batteriesn are recharged quickly when electricity supplied by your RV's generator or campground hookup. Automatic low/high DC voltage shutdown and other safety features help to protect your expensive deep-cycle batteries from excessive depletion. Twin AC output breaker variant also available!

Product Features

- » Three-stage battery charger recharges batteries quickly while protecting your battery bank
- » Programmable front panel and LED indicators
- » Temperature sensitive charging for of all types of deep cycle batteries
- » Built-in 30 amp transfer switch automatically transfers between inverter power and incoming AC power
- » Customized settings can be programmed with the Xantrex Freedom Basic Remote Panel
- » Option of dual input and dual output connections for easy installation
- » 30 month warranty
- » Approved to the UL 458 and CSA 22.21 regulatory standards

Protection Features

- » Power sharing prevents nuisance tripping of shore power breaker
- » Over voltage and under voltage protection
- » Over-temperature protection
- » Overload protection
- » Short circuit protection

Applications:







Recreational vehicles

Heavy duty trucks

vehic





vehicles

Buses / coaches





| Electrical specifications – inverter | 20 | 25 |
|--------------------------------------|-----------------------|-----------------------|
| Output power (continuous) | 2000 W | 2500 W |
| Surge power (AC amps) | 50 A | 62.5 A |
| Output frequency regulation | 60 Hz | 60 Hz |
| Inverter voltage regulation | 120 V +/- 5% true RMS | 120 V +/- 5% true RMS |
| Output wave form | Modified sine wave | Modified sine wave |
| Efficiency (full load) | 85% | 87% |
| Peak efficiency | 92% | 92% |
| No load current draw (idle mode) | 0.12 A | 0.12 A |
| AC output connections | Single* | Dual |
| AC input connections | Single | Dual |
| AC transfer switch | 30 A | 30 A |

| Charge rate | 100 A DC | 130 A DC | |
|--------------------------------|---------------|---------------|--|
| AC input voltage range | 90 130 Vac | 90 130 Vac | |
| Battery voltage (nominal) | 12 Vdc | 12 Vdc | |
| Battery voltage range | 10.0 15.5 Vdc | 10.0 15.5 Vdc | |
| Low battery cut-out | 10.0 Vdc | 10.0 Vdc | |
| AC input (max. charge mode) | 21 A AC | 26 A AC | |
| Bulk charge voltage** | 14.3 Vdc | 14.3 Vdc | |
| Float charge voltage** | 13.4 Vdc | 13.4 Vdc | |
| Equalize charge voltage | 16.3 Vdc | 16.3 Vdc | |
| Charge control | 3-stage | 3-stage | |
| Battery type settings | Wet / Gel 1 / | Wet / Gel 1 / | |
| | Gel 2 / AGM | Gel 2 / AGM | |
| Equalization | Yes | Yes | |
| Temperature sensitive charging | Yes | Yes | |

| General specifications | | | |
|-------------------------------------|---|---------------|--|
| Optimal operating temperature range | 32°F – 104°F (0°C – 40°C)*** derated below 0°C and above 40°C | | |
| Optional remotes | Freedom Basic Remote | | |
| Dimensions (H x W x L) | 7.9 x 11.5 x 13.2" (201 x 292 x 335 mm) | | |
| Weight | 45 lb (20 kg) | 50 lb (23 kg) | |
| Warranty | 30 months | 30 months | |
| Part numbers | | | |
| Single input, single output | 81-2010-12 | | |
| Single input, dual output - | 81-2022-12 | | |
| 20/15 circuit breakers | | | |
| Dual input, dual output | | 81-2530-12 | |
| Accessories | | | |
| Freedom Basic Remote | 84-2056-01 | 84-2056-01 | |
| Thermal Sensor Assembly 15' | 76-0022-00 | 76-0022-00 | |

Regulatory and environmental compliance

UL and cUL listed to UL 458 and CSA C22.2 No. 107.1 / 107.2 standards

Specifications are subject to change without notice. *For dual, see circuit breaker options below under "Part Numbers". **Default value varies with battery type and temperature. ***Quartz regulated.