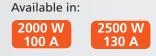
FREEDOM 458 **INVERTER/CHARGER** 

xantre Smart choice for power™

# Trusted solution in RV inverter/ chargers, economical and dependable





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:





vehicles



6



Specialty vehicles



#### Schneider Electric Solar Business

3700 Gilmore Way Burnaby, British Columbia Canada V5G 4M1 800 670 0707 Toll Free 604 420 1591 Fax

541 Roske Drive, Suite A Elkhart, Indiana USA 46516 800 446 6180 Toll Free 574 294 5989 Fax

## www.xantrex.com

# FREEDOM 458 INVERTER/CHARGER



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

#### Electrical specifications - charger

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** $32^\circ\text{F}-104^\circ\text{F}~(0^\circ\text{C}-40^\circ\text{C})^{***}$ derated below 0°C and above 40°C Optimal operating temperature range 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 01 2520 12

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.