






FREEDOM SW-RVC INVERTER/CHARGER DATASHEET



AVAILABLE IN:
12V 
3000W/150A

THE HEART OF YOUR POWER SYSTEM

FREEDOM SW series from Xantrex are the most advanced and capable inverter chargers in the mobile market. These units are packed with features like “Generator Support Mode” which enables the Freedom SW to assist a generator when AC loads exceed the generator’s capacity. They are also stackable for extra power. If you are looking for a unit for your air conditioning, this is the one! With a powerful long duration 2x surge and other industry leading features, the Freedom SW series will handle demanding power requirements.

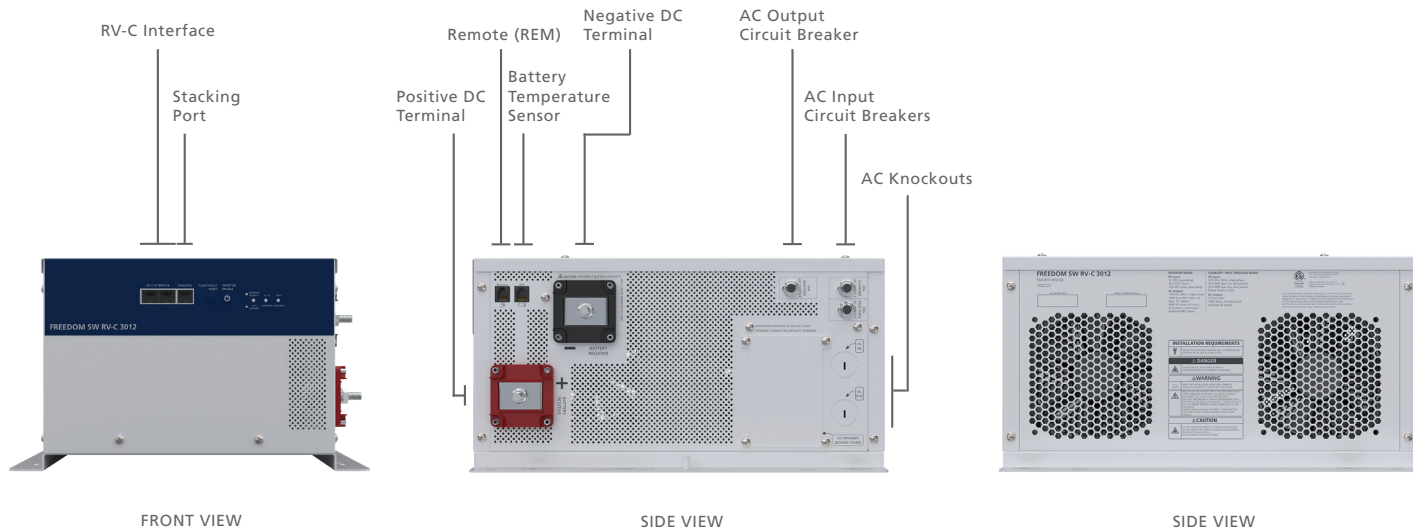
-  Built-in hybrid functionality - combines shore and AC generator input to power loads
-  Designed to charge lithium ion batteries
-  Meets CSA-C22.2 No.107.1 and UL458, and more
-  Exceptional surge for extended time

APPLICATIONS:



**2 YEAR
WARRANTY**

www.xantrex.com
CUSTOMER CARE: 1.800.670.0707



PRODUCT FEATURES

- Parallel stacking enables the Freedom SW-RVC inverter/chargers to double the available AC output current in inverter mode
- Series stacking enables the Freedom SW-RVC inverter/chargers to generate 120/240 V split phase power*
- Temperature compensated charging for varying climate conditions
- True sine wave output to operate sensitive electronics
- Advanced configuration options for customized applications
- Built-in transfer switch automatically transfers between inverter power and incoming AC power
- Ignition lockout feature helps to minimize unnecessary battery drain**
- Full inverter output up to 40°C (104°F) for 3000W model
- Dual input / Dual output AC interface
- Conformal coated circuit boards for humid environments
- Battery over-voltage and under-voltage protection
- Power factor corrected multi-stage charger for fast, efficient charging
- Ability to charge batteries drained to extremely low voltage

PROTECTION FEATURES

- Battery over-voltage and under-voltage protection
- Over-temperature shutdown
- Automatic overload protection
- Short-circuit protection
- Integrated, resettable AC breakers

* AC source must be split-phase, requires Stacking Cable (#808-9005).
 **When used with On/Off Remote Panel sold separately

ELECTRICAL SPECIFICATIONS - INVERTER

FREEDOM SW-RVC	
Output power (continuous at 40°C)	3000W
Surge rating (5 seconds)	6000W
Peak output current	80A
Output frequency	60Hz ± 0.2Hz
Output voltage	120Vac
Output wave form	True sine wave
Optimal efficiency	90%
No-load power draw (inverting)	3Adc
Input DC voltage range	10–16Vdc
AC connections	Split phase in / dual out, Dual in / dual out

ELECTRICAL SPECIFICATIONS - BATTERY CHARGER

FREEDOM SW-RVC	
Output current (continuous at 25°C)	150A
Output voltage	12Vdc
Output voltage range	5–16Vdc
Charge control	3 stage with manual equalize
Charge temperature compensation	Remote battery sensor (included)
Optimal efficiency	>85%
AC input power factor (maximum charge)	0.98 typical
Input current (for maximum charging)	24A rms nominal
Input AC voltage	120Vac
Input AC voltage range	85–140 Vac
Dead battery charge	>5Vdc

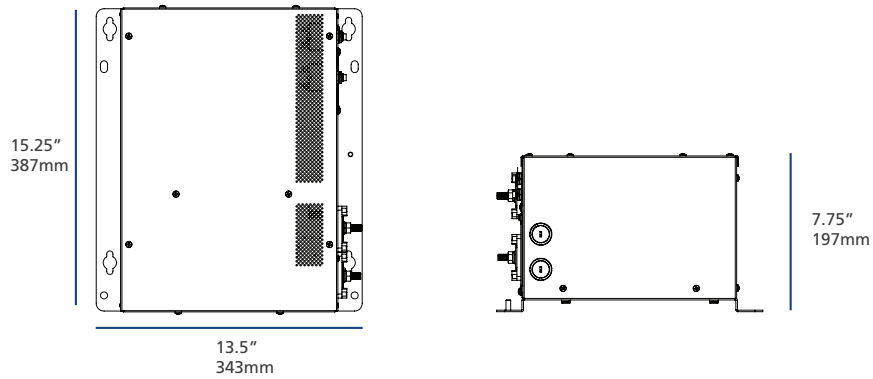
GENERAL SPECIFICATIONS

FREEDOM SW-RVC	
Compatible battery types	Custom / Flooded / Gel / AGM*
Transfer relay rating	2 legs at 30 A each
Transfer time (AC to inverter and inverter to AC)	<20ms
Optimal operating temperature range	-4°F–140°F (-20°C–60°C)
Storage ambient temperature range	-40°F–185°F (-40°C–85°C)
Part number	815-3012-02
Dimensions (L x W x H)	7.75 x 13.5 x 15.25" (197 x 343 x 387mm)
Net Weight	60.5lbs (27.5kg)

REGULATORY APPROVALS

FREEDOM SW-RVC	
Product Safety	ETL listed to CSA 107.1, UL458
EMI	CFR 47, FCC, PART 15, Subpart B, Class B and ISED CAN ICES-003, Class B

FREEDOM SW-RVC DIMENSIONS



ACCESSORIES

Mfg Part #	Description
809-0946	Battery temperature sensor
808-9002	Freedom SW On/Off Remote Panel
808-9004	Drip shield
808-9003	GFCI option
808-9005	Stacking cable for series stacking
808-9010	Freedom SW telephone to network cable adapter

CONTACT

CUSTOMER SERVICE

1.800.670.0707
 customerservice@xantrex.com
Hours of operation:
 6:30am - 4:30pm PST, Monday to Friday

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LEARN MORE ON:

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