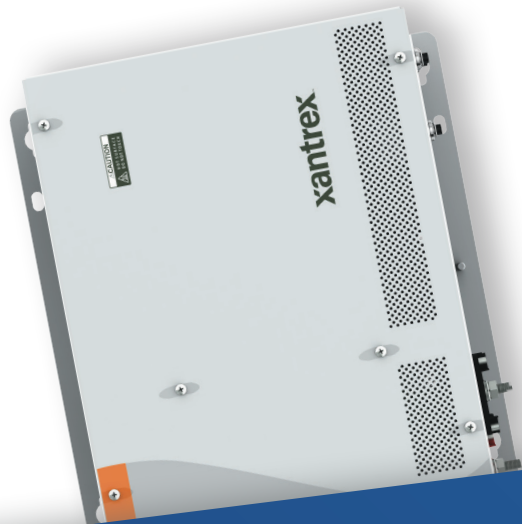




FREEDOM SW INVERTER/CHARGER DATASHEET



AVAILABLE IN:
230V \sim / 24V

2500W/65A
3400W/90A

THE HEART OF YOUR POWER SYSTEM

Just like its North American 120V \sim counterpart, the Freedom SW 230 V \sim inverter/charger offers true sine wave performance and efficient, multi-stage charging. The 2x continuous power surge rating provides necessary start-up power for demanding applications including inductive motor loads. Available in two 230 V / 50 Hz, 24 Vdc models, the Freedom SW offers parallel stacking capability to enable twice-the-rated current. Both models can operate in tandem with a generator to temporarily assist power loads with large start-up demands such as air conditioners, water pumps etc. A Xanbus AGS must be installed in the system in order for this feature work. Both are compatible with optional accessories such as the System Control Panel (SCP) and the Automatic Generator Start (AGS).

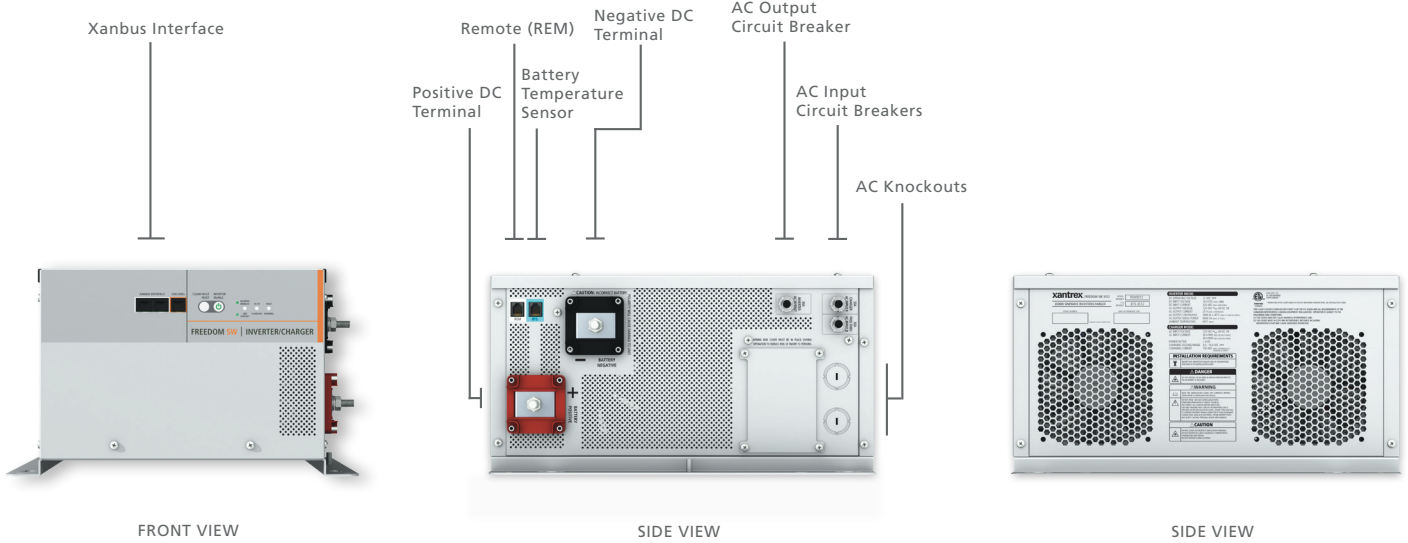
The Freedom SW inverter/charger provides utility grade AC power to operate commonly used AC-powered electronics such as LED television sets, microwaves, entertainment systems, computers, printers, power tools, refrigerators and much more.

-  Built-in hybrid functionality - combines shore and AC generator input to power loads
-  Designed to charge lithium ion batteries
-  CE Marking and Regulation 10R E-Mark (Europe) and RCM (Australia / New Zealand) requirements
-  Exceptional surge for extended time

APPLICATIONS:



www.xantrex.com
CUSTOMER CARE: 1.800.670.0707



PRODUCT FEATURES

- Parallel stacking enables the Freedom SW inverter/chargers to double the available AC output current in inverter mode
- 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
- Wide operating temperature range: -20°C to 60°C
- Conformal coated circuit boards for humid environments
- Power factor corrected multi-stage charger for fast, efficient charging
- Meets CE and E-Mark (Europe), RCM (Australia/New Zealand)

PROTECTION FEATURES

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

RECOMMENDED ACCESSORIES



Available telephone to network cable adapter to avoid the need to replace cables when replacing and old inverter. (#808-9010 sold separately)



FREEDOM SW Conext Combox (809-0918)



DOWNLOAD ON



ONLY FOR TABLETS

- Control inverter
- Control generator
- Shore breaker size
- Data logging

ELECTRICAL SPECS - INVERTER

FREEDOM SW (815-2524-02, 815-3524-02) DATASHEET

| | FREEDOM SW 2524 | FREEDOM SW 3524 |
|-----------------------------------|-----------------------|-----------------------|
| Output power (continuous at 40°C) | 2500 W | 3400 W |
| Surge rating (5 seconds) | 5000 W | 6800 W |
| Output frequency | 50 Hz +/- 0.2 Hz | 50 Hz +/- 0.2 Hz |
| Output voltage | 230 V \sim | 230 V \sim |
| Output wave form | True sine wave | True sine wave |
| Optimal efficiency | 90% | 90% |
| No-load power draw (inverting) | <1.9 Adc | <2.2 Adc |
| Input DC voltage range | 20 - 32 Vdc | 20 - 32 Vdc |
| AC connections | Single phase in / out | Single phase in / out |

ELECTRICAL SPECS - BATTERY CHARGER

| | FREEDOM SW 2524 | FREEDOM SW 3524 |
|----------------------------------------|----------------------------------|----------------------------------|
| Output current (continuous at 25°C) | 65 A | 90 A |
| Output voltage | 24 Vdc | 24 Vdc |
| Output voltage range | 12 - 32 Vdc | 12 - 32 Vdc |
| Charge control | 3 stage with manual equalize | 3 stage with manual equalize |
| Charge temperature compensation | Remote battery sensor (included) | Remote battery sensor (included) |
| Optimal Efficiency | > 85% | > 85% |
| AC input power factor (maximum charge) | 0.98 typical | 0.98 typical |
| Input current (for maximum charging) | 10.6 A rms nominal | 14 A rms nominal |
| Input AC voltage | 230 V \sim | 230 V \sim |
| Input AC voltage range | 170-270 V \sim | 170-270 V \sim |
| Dead battery charge | > 12 Vdc | > 12 Vdc |

GENERAL SPECS

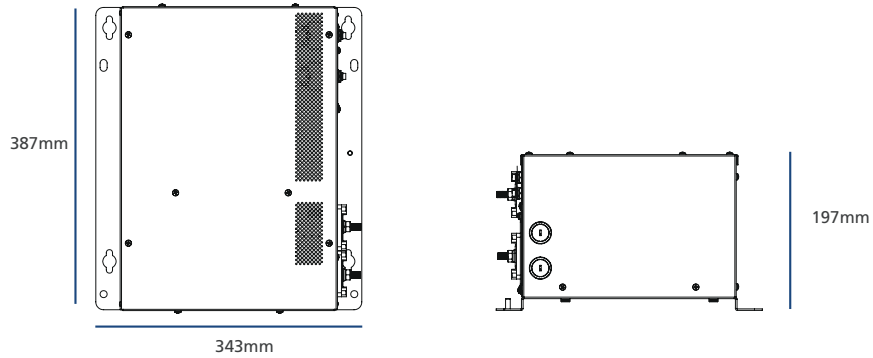
| | FREEDOM SW 2524 | FREEDOM SW 3524 |
|---------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Compatible battery types | LiFePO ₄ / Flooded / gel / AGM* | LiFePO ₄ / Flooded / gel / AGM* |
| Transfer relay rating | 1 leg of 30 A | 2 legs at 30 A each |
| Transfer time (AC to inverter and inverter to AC) | < 20 ms | < 20 ms |
| Optimal operating temperature range | - 20°C to 60°C | - 20°C to 60°C |
| Storage ambient temperature range | - 40°C to 85°C | - 40°C to 85°C |
| Part Number | 815-2524-02 | 815-3524-02 |
| L x W x H | 197 x 343 x 387 mm | 197 x 343 x 387 mm |
| Net Weight | 21.4 kg | 27.2 kg |

REGULATORY APPROVALS

| | FREEDOM SW 2524, FREEDOM SW 3524 |
|---------------|-------------------------------------------------------------------------------------------|
| Safety | CE Marking, Low Voltage Directive Compliant (Marine installations, drip shield, 808-9004) |
| EMC | CE Marking, EMC Directive and Automotive EMC - Regulation 10 R E-Mark Compliant |
| Environmental | CE Marking, RoHS Directive Compliant |

*System Control Panel is required for configuring various battery types

FREEDOM SW DIMENSIONS



ACCESSORIES

| Mfg Part # | Description |
|------------|-----------------------------------------------|
| 809-0946 | Battery temperature sensor |
| 808-9002 | Freedom SW On/Off Remote Panel |
| 809-0915 | Automatic Generator Start (AGS) |
| 809-0921 | System control panel (SCP) |
| 809-0940 | 25' network cable for system control panel |
| 809-0941 | 50' network cable for system control panel |
| 809-0942 | 75' network cable for system control panel |
| 808-9004 | Drip shield |
| 809-0918 | Freedom SW Combox |
| 808-9010 | Freedom SW telephone to network cable adapter |

MASTER CARTON INFO

| | |
|--------------------------------------|----------------------------------------------------------|
| Master carton quantity | 1 |
| Master carton dimensions (H x W x L) | 30 x 43.5 x 52.2 cm |
| Master carton weight | FREEDOM SW 2524 - 23.9 kg / FREEDOM SW 3524 - 30.7 kg |

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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