

NEW



230 Vac

FREEDOM SW
INVERTER/CHARGERS

Feature Packed Premium Performance

The category defining Freedom series is now available in 230Vac/50Hz configuration.

Just like its North American 110Vac counterpart, the NEW Freedom SW 230Vac inverter/charger offers premium 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 230Vac/50Hz, 24Vdc models, the Freedom SW offers PARALLEL stacking capability to enable twice-the-rated output. 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 plasma television sets, microwaves, entertainment systems, computers, printers, power tools, refrigerators and much more.

Application

- ▶ Designed for a variety of mobile 24Vdc applications such as commercial, emergency and recreational vehicle, marine vessel, bus, construction and other heavy duty applications.

Product Features

- ▶ Available in 2 models: 2500W with 65A charger, 3400W with 90A charger
- ▶ Parallel stacking capability to double the inverter power output
- ▶ Advanced configuration options for customized applications
- ▶ Built-in transfer switch automatically transfers between inverter power and incoming AC power
- ▶ Power factor corrected multi-stage charger for fast, efficient charging
- ▶ Temperature compensated charging for all climate conditions
- ▶ Ignition lockout prevents unnecessary battery drain when the alternator is not providing power*
- ▶ Wide operating temperature range: -4°F to 140°F (-20°C to 60°C)
- ▶ Conformal coated circuit boards to protect against humid environments
- ▶ Compatible with the Xanbus Automatic Generator Start** (Part# 809-0915)
- ▶ Meets CE (Europe), RCM (Australia)

*When used with the remote panel, **Sold separately

Protection Features

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

24 Vdc

**2500
Watts**

**3400
Watts**

KEY FEATURES

PARALLEL STACKING FOR

2X

OUTPUT POWER

GENERATOR

ASSIST

MODE



This product has undergone rigorous testing under extreme thermal & mechanical conditions



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FREEDOM SW Inverter/Chargers

Electrical Specifications - Inverter	Freedom SW 2524 (815-2524-02)	Freedom SW 3524 (815-3524-02)
Output power (continuous at 25°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 Vac	230 Vac
Output wave form	Pure sine wave	Pure 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 Specifications - Charger		
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 Vac	230 Vac
Input AC voltage range	170 - 270 Vac	170 - 270 Vac
Dead battery charge	> 12 Vdc	> 12 Vdc

General Specifications		
Compatible battery types	Flooded / gel / AGM	Flooded / gel / AGM
Transfer relay rating	1 leg of 30 A	1 leg of 30 A
Transfer time (AC to inverter and inverter to AC)	< 20 ms	< 20 ms
Operating temperature range (full power)	- 4°F to 140°F (- 20°C to 60°C)	- 4°F to 140°F (- 20°C to 60°C)
Storage ambient temperature range	- 40°F to 185°F (- 40°C to 85°C)	- 40°F to 185°F (- 40°C to 85°C)
Unit dimensions (L x W x H)	15.25 x 13.5 x 7.75" (38.7 x 34.3 x 19.7 cm)	15.25 x 13.5 x 7.75" (38.7 x 34.3 x 19.7 cm)
Unit weight	21.4 kg (47 lbs)	27.2 kg (60 lbs)
Warranty	2 years	2 years
Master carton quantity	1	1
Master carton dimensions (L x W x H)	20.5 x 17.1 x 11.8" (52.2 x 43.5 x 30 cm)	20.5 x 17.1 x 11.8" (52.2 x 43.5 x 30 cm)
Master carton weight	23.9 kg (52 lbs)	30.7 kg (67 lbs)
Part Number	815-2524-02	815-3524-02

Accessories	
Battery temperature sensor	Part# 809-0946 - INCLUDED
Freedom SW On/Off Remote Panel	Part# 808-9002 - SOLD SEPARATELY
Automatic Generator Start (AGS)	Part# 809-0915 - SOLD SEPARATELY
System control panel (SCP)	Part# 809-0921 - SOLD SEPARATELY
25' network cable for system control panel	Part# 809-0940 - SOLD SEPARATELY
75' network cable for system control panel	Part# 809-0942 - SOLD SEPARATELY

Regulatory & Environmental Compliance
CE (Europe), RCM (Australia), EN 62040-2

Note: Specifications subject to change without notice