

# RS Sine Wave Inverter/Charger

## 2000 and 3000 Watt Sine Wave Inverter/Chargers



### Powerful, easy-to-use sine wave inverter/chargers featuring an upgradeable design and built-in networking.

RS Inverter/Chargers are simply the most advanced and easy to use on the market. Premium sine wave output and a high surge capability will power appliances and electronic devices, including microwaves, entertainment systems, coffee makers, power tools, and lights.

A power factor corrected three-stage charger provides long battery life by recharging batteries more quickly, while using less AC power. The stress-tested, UL458 design delivers reliable power in demanding conditions. An aluminum chassis and high-temperature operation guarantee long-term trouble-free performance. They also meet strict electromagnetic interference standards designed to minimize interference with radios and other onboard electronics.

RS Inverter/Chargers are Xanbus Enabled, so it's easy to connect network-enabled accessories as well as share power status and diagnostic information with other devices. Xanbus makes power management less complex, while intelligently making the best use of available power resources. The inverter/chargers and accessories have built-in flash memory so their software can be upgraded to take advantage of new features and system enhancements.

#### Product Features

- ▶ 2000 watt inverter/5000 watt surge rating and 3000 watt inverter/7500 watt surge rating
- ▶ Sine wave output to power sensitive appliances and electronics
- ▶ 120/150A power factor corrected multi-stage charger for fast, efficient charging
- ▶ Full power inverter and charger output to 122°F (50°C)
- ▶ Split phase or dual in-phase inputs offers flexible use of available AC power
- ▶ Advanced diagnostics and field upgradeable software
- ▶ Meets UL458 standards and FCC Class B regulations
- ▶ Xanbus Enabled

#### Protection Features

- ▶ Battery over voltage and under voltage protection
- ▶ Over temperature protection
- ▶ Automatic overload protection
- ▶ Short circuit protection

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### Electrical Specifications - Inverter

Model	RS2000	RS3000
Output power (continuous)	2000 W	3000 W
Surge rating (5 second)	5000 W (42 A)	7500 W (60 A)
Output voltage	120 VAC	120 VAC
Output frequency	60 Hz + / -0.05% (crystal controlled)	60 Hz + / -0.05% (crystal controlled)
Output waveform	Sine wave <3% THD	Sine wave <3% THD
Peak efficiency	>92%	>90%
Efficiency (full load)	>87%	>85%
No load power draw (load sense)	<14.4 W	<20 W
AC connections	Single / Dual*	Split phase in / dual out, Dual in / dual out
AC transfer capacity	30 A (single in)	2 legs at 50 A (split phase in), 2 legs at 30 A (dual in)
Transfer time	20 ms (typical)	20 ms (typical)

\*See options under 'Part Numbers'

### Electrical Specifications - Charger

Output current	120 ADC	180 ADC
Battery voltage (nominal)	12 VDC	12 VDC
Battery voltage range	10.0 – 15.5 VDC	10.0 – 15.5 VDC
Charge control	3 stage with manual equalize	3 stage with manual equalize
Charge temperature compensation	Remote battery sensor (included)	Remote battery sensor (included)
Efficiency	85% typical	85% typical
AC input power factor	0.95	0.95
Input current (maximum charge rate 150 A)	17 A RMS (120 A)	22 A RMS (150 A)
AC input voltage	120 VAC nominal	120 VAC nominal
AC input voltage range	90 – 135 VAC	90 – 135 VAC
Compatible battery types	Wet / Gel / AGM	Wet / Gel / AGM

### General

Operating temperature range	-4°F – 122°F (-20°C – 50°C)	
Storage temperature range	-40°F – 122°F (-40°C – 50°C)	
Dimensions (H x W x D)	8.17 x 13.25 x 16" (208 x 336 x 406 mm)	
Weight	68.0 lbs. (30.9 kg)	75.0 lbs. (34.01 kg)
Warranty	3 years	
Part Numbers	Single in / Single out	809-2000
	Dual in / Dual out	809-2005
	Dual in / Dual out - 20/20 circuit breakers	809-2006
	Split phase in / Dual out	809-3000
Accessories	System Control Panel	809-0910
	Automatic Generator Start	809-0915
	Network Connector	809-0903
	Network Cable 3'	809-0935
	Network Cable 5'	809-0936
	Network Cable 7'	809-0937
	Network Cable 10'	809-0938
	Network Cable 14'	809-0939
	Network Cable 25'	809-0940
	Network Cable 50'	809-0941
	Network Cable 75'	809-0942

### Regulatory Approvals

CSA/NRTL certified to CSA 107.1, UL 458

FCC Class B/Industry Canada Class B