

SW2512MC & SW4024MC2

xantrex

Heavy Duty True Sine Wave Inverter/Charger



Certified to UL and CSA Standards

Applications

- ▶ Widely used in RV, marine, truck, and other mobile applications, the SW2512MC and SW4024MC2 instantly supplies true sine wave, utility grade, AC output power.
- ▶ Ideal for heavier loads, the SW2512MC and SW4024MC2 offers high capacity battery charging, high surge current ability (inrush current), and easy installation.

Product Features

- ▶ 120 VAC output at 2500 watts (12 V model) or 4000 watts (24 V model)
- ▶ Three-stage battery charging (bulk, absorption, and float) with remote temperature sensor for increased charge accuracy
- ▶ Dual AC source inputs - shorepower and generator
- ▶ Programmable control module with LCD and LED indicators
- ▶ Low idle current (less than 16 watts) conserves energy when no loads are present
- ▶ Soft start capability for starting heavy loads
- ▶ Two year warranty

Options

- ▶ Series stacking capability for 120/240 VAC operation (optional equipment is required)
- ▶ Parallel stacking capability for greater output at the same voltage (optional equipment is required)
- ▶ Remote panel and status indicator (SWRCII)
- ▶ User-programmable generator start mode can be set to automatically start the generator, allows the inverter to run in parallel with the generator, and assists with intermittent heavy loads
- ▶ Integral auxiliary relays can automatically start and stop auxiliary loads, such as fans, based on programmable voltage parameters

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Electrical Specifications

Model	SW2512MC	SW4024MC2	
AC input voltage	120 VAC	120 VAC	
AC input voltage range	80 – 149 VAC	80 – 149 VAC	
AC input current	60 amps AC pass thru 30 amps AC charging	60 amps AC pass thru 30 amps AC charging	Required for full pass through and full charging
Continuous power (@ 25 °C)	2500 VA	4000 VA	
Efficiency (Peak)	90%	94%	
AC output voltage (RMS)	120 VAC	120 VAC	
AC output voltage regulation	+/- 5%	+/- 5%	
Frequency	60 Hz	60 Hz	Nominal ± 0.04% Crystal Controlled
Waveform	Sine wave, 34 – 52 steps per cycle	Sine wave, 34 – 52 steps per cycle	
Total harmonic distortion	< 5 %	< 5%	
Continuous output (@ 25 °C)	21 amps AC	33 amps AC	
Surge capability			
5 sec rating (resistive)	4000 watts	8000 watts	
1 mSec	65 amps AC	110 amps AC	
100 mSec	46 amps AC	78 amps AC	
Automatic transfer relay	60 amps	60 amps	
DC input voltage (Nominal)	12 VDC	24 VDC	
DC input voltage range	11.8 – 16.5 VDC	22 – 33 VDC	
DC current at rated power	275 amps	200 amps DC	
Idle consumption	< 16 watts	< 16 watts	Typical at Full Voltage
Search mode consumption	< 1 watt	< 1 watt	
Max. charge rate (adjustable)	150 amps DC at 12 V nom.	120 amps DC at 24 V nom.	

General Specifications

Model	SW2512MC	SW4024MC2	
Specified temperature range	32 °F – 77 °F (0 °C – 40 °C)	32 °F – 77 °F (0 °C – 40 °C)	Power derated above 25 °C
Enclosure type	Indoor, ventilated, steel chassis with powdercoat finish		
Unit weight	90 lb (41 kg)	105 lb (48 kg)	
Shipping	96 lb (45 kg)	111 lb (50 kg)	
Inverter dimensions (H x W x D)	15 x 22.5 x 9" (38 x 57 x 23 cm)	15 x 22.5 x 9" (38 x 57 x 23 cm)	
Shipping dimensions (H x W x D)	15 x 27 x 21" (38 x 69 x 53 cm)	15 x 27 x 21" (38 x 69 x 53 cm)	
Mounting	Bulkhead mount	Bulkhead mount	
Warranty	Two years		
Part numbers	SW2512MC		
	SW4024MC2		
	SWRC (SW remote control panel with LCD and 25' cable for SW4024MC2 and SW2512MC)		
	SWRC/50FT (same as above but with 50' cable)		

Regulatory Approvals

cETL approved to UL 1741, UL 458, and CSA 107.1

Note: Specifications subject to change without notice.