DR Inverter/Chargers

xantrex

120 VAC, 60 Hz Mid-range Inverter/Charger

The DR Inverter/Charger provides dependable modified sine wave power for businesses, homes and workshops. Available in 1500, 2400 or 3600 watt models, it can power most common electrical appliances such as lights, televisions, cash registers, refrigerators, washing machines, computers, and power tools. The DR's high surge capacity gives it the ability to start difficult motor loads. Once set up, all functions of the inverter/charger are fully automatic.

Features

- Quiet, high efficiency operation.
- Front panel LED indicators and adjustable switch selectors.
- Selectable settings for flooded lead acid, gel, or absorbed glass mat (AGM) batteries.
- Three-stage battery charging (bulk, absorption, and float) for increased performance.
- Low battery, overload, and high battery, over temperature protection circuitry.
- Fast switching (grid to battery and battery to grid) for backup power.
- Low idle current (less than one watt) conserves energy when no loads are present.
- Generator compatible.

Options

- Remote battery temperature sensor (BTS) increases battery performance and life.
- Remote control and status indicator (RC8) allows you to view system status remotely.
- Side mount conduit box (DRCB) makes code-compliant DC wiring connections convenient.
- DRI stacking interface for 120/240 volt operation. Requires two units.

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Electrical Specifications

Models		DR1512	DR2412	DR1524	DR2424	DR3624
AC Input Voltage		120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
AC Input Low Transfer Voltage		40-105 VAC	40-105 VAC	40-105 VAC	40-105 VAC	40-105 VAC
AC Input Current		55 amps AC – 30 amps AC pass through and 25 amps AC charging				
Continuous Power (@ 25 °C)		1500 VA	2400 VA	1500 VA	2400 VA	3600 VA
Efficiency (Peak)		94%	94%	94%	95%	95%
Output Voltage (RMS)		120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
Maximum Output Voltage Regulation		± 5%	± 5%	± 5%	± 5%	± 5%
Frequency (Nominal)		60 Hz	60 Hz	60 Hz	60 Hz	60 Hz ± 0.04% crystal controlled
Continuous Output (@ 25 °C)		12.5 amps AC	20 amps AC	12.5 amps AC	20 amps AC	30 amps AC
Surge Capability	**5 Sec Rating**	2400 watts	4200 watts	3500 watts	6200 watts	7500 watts
	1 mSec	38 amps AC	77 amps AC	41 amps AC	80 amps AC	100 amps AC
	100 mSec	27 amps AC	55 amps AC	29 amps AC	58 amps AC	72 amps AC
Automatic Transfer Relay		30 amps	30 amps	30 amps	30 amps	30 amps
DC Input Voltage (Nominal)		12.6 VDC	12.6 VDC	25.2 VDC	25.2 VDC	25.2 VDC
DC Input Voltage Range		10.8-15.5 VDC	10.8-15.5 VDC	21.6-31 VDC	21.6-31 VDC	21.6-31 VDC
DC Current at Rated Power		165 amps DC	280 amps DC	80 amps DC	140 amps DC	210 amps DC
Short Circuit Current		400 amps DC	800 amps DC	280 amps DC	560 amps DC	720 amps DC
Idle Consumption (Typical at Full Voltage)		< 9 watts	< 12 watts	< 9 watts	< 12 watts	< 13 watts
Search Mode Consumption		< 1 watt	< 1 watt	< 1 watt	< 1 watt	< 1 watt
Low Battery Protection (Enabled)		11 VDC	11 VDC	22 VDC	22 VDC	22 VDC
Maximum Charge Rate (Adjustable)		70 amps DC	120 amps DC	35 amps DC	70 amps DC	70 amps DC
Waveform		Modified sine wave				
Load Sensing (Inverter Mode)		Adjustable 5 to over 100 watts				
Power Factor (Allowed)		0.5 to 1.0 pf	0.5 to 1.0 pf	0.5 to 1.0 pf	0.5 to 1.0 pf	0.5 to 1.0 pf (lead or lag)

General Specifications

Specified Temperature Range	32 °F to 104 °F (0 °C to 40 °C)				
Enclosure Type	Indoor, ventilated, steel chassis with powdercoat finish				
Unit Weight	35 lb (16 kg)	45 lb (21 kg)	35 lb (16 kg)	40 lb (19 kg)	45 lb (21 kg)
Shipping	39 lb (18 kg)	49 lb (22 kg)	39 lb (18 kg)	44 lb (20 kg)	49 lb (22 kg)
Inverter Dimensions	8.5" H x 22" W x 7.25" D (21.6 cm H x 55.9 cm W x 18.4 cm D)				
Shipping Dimensions	13" H x 25" W x 12" D (33 cm H x 63.5 cm W x 30.5 cm D)				
Mounting	Horizontal wall mount				
Warranty	2 years				
Part numbers	DR1512, DR1524, DR2412, DR2424, DR3624 - DR Inverter/Chargers				
	DRI - Optional, stacking interface cable				
	DRCB - Optional, conduit box				
	RC8 - Optional, remote				
	BTS - Optional, battery temperature sensor				

Features & Options

Forced Air Cooling	Standard - forced air variable speed fan
Charging Profiles	Eight standard with two equalize profiles
Three-stage Charging	Standard - three-stage (bulk, absorption, and float)
Series Stacking Operation	Standard for 120 VAC 60 Hz units only - Requires two units
Battery Temperature Sensor	BTS - optional remote battery temperature sensor for increased battery performance
Remote Control	RC8 - optional remote control and status indicator
Stacking Interface	DRI - optional stacking interface cable for 120/240 VAC 60 Hz applications
Conduit Box	DRCB - optional side mount conduit box for code-compliant DC wiring connections

Regulatory Approvals

ETL Listed to UL 1741 and CSA 22.2 No. 107.1 Standards

Specifications subject to change without notice.