

DR Inverter/Charger

230 VAC/50 Hz Mid-range Inverter/Charger



The DR Inverter/Charger provides dependable modified sine wave power for businesses, homes and workshops. Available in 1500 or 2400 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.

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230 VAC, 50 Hz Mid-range Inverter/Charger

Electrical Specifications

Model	DR1512E	DR1524E	DR 1548E	DR2424E	
AC Input Voltage	230 VAC	230 VAC	230 VAC	230 VAC	
AC Input Low Transfer Voltage	80 - 210 VAC	80 - 210 VAC	80 - 210 VAC	80 - 210 VAC	
Maximum AC Input Current	25 amps	25 amps	25 amps	30 amps	
Continuous Power (@25 °C)	1500 VA	1500 VA	1500 VA	2400 VA	
Efficiency (Peak)	94%	94%	94%	94%	
Output Voltage (RMS)	230 VAC	230 VAC	230 VAC	230 VAC	
Maximum Output Voltage Regulation	± 5%	± 5%	± 5%	± 5%	
Frequency (Nominal)	50 Hz	50 Hz	50 Hz	50 Hz	± 0.04% Crystal Controlled
Continuous Output (@25 °C)	6.5 amps AC	6.5 amps AC	6.5 amps AC	10.5 amps AC	
1 mSec Surge Capability	20 amps AC	20 amps AC	20 amps AC	40 amps AC	
Automatic Transfer Relay	15 amps	15 amps	15 amps	15 amps	
DC Input Voltage (Nominal)	12.6 VDC	25.2 VDC	50.4 VDC	25.2 VDC	
DC Input Voltage Range	10.9 - 15.5 VDC	21.8 - 31 VDC	43.6 - 62 VDC	21.8 - 31 VDC	
DC Current at Rated Power	150 amps DC	75 amps DC	37 amps DC	120 amps DC	
Idle Consumption (Typical at Full Voltage)	< 10 watts	< 10 watts	< 10 watts	< 10 watts	
Search Mode Consumption	< 1 watt	< 1 watt	< 1 watt	< 1 watt	
Maximum Charge Rate (Adjustable)	70 amps DC	35 amps DC	17.5 amps DC	70 amps DC	
Waveform	Modified sine wave				
Load Sensing (Inverter Mode)	Adjustable 5 to over 100 watts (5 watts default)				
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	(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 powder coat finish			
Unit Weight	38 lb (17.2 kg)	38 lb (17.2 kg)	36 lb (16.3 kg)	44 lb (20 kg)
Shipping	42 lb (19 kg)	42 lb (19 kg)	40 lb (18.1 kg)	48 lb (21.8 kg)
Dimensions (H x W x D)	8.5" x 22" x 7.25" (21.6 cm x 55.9 cm x 18.4 cm)			
Shipping Dimensions (H x W x D)	13" x 25" x 12" (33 cm x 63.5 cm x 30.5 cm)			
Mounting	Horizontal wall mount			
Warranty	2 years			
Part numbers	DR1512E, DR1524E, DR1548E, DR2424E - DR Inverter/Chargers			
	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)
Battery Temperature Sensor	BTS - optional remote battery temperature sensor for increased battery performance
Remote Control	RC8 - optional remote control and status indicator
Conduit Box	DRCB - optional side mount conduit box for code-compliant DC wiring connections

Regulatory Approvals

CE Mark