

Model DR Series

INVERTER/CHARGER

The solution: a low cost, reliable and easy to use inverter.

- A 1500, 2400 or 3600 watt continuous output inverter and high power battery charger included
- High efficiency, high surge capacity and low idle current
- Low power search mode
- Quiet operation
- Three-stage charger with battery type selector
- Automatic low-battery protection
- Fast switching for standby power system (SPS) installations
- Stackable for 120/240VAC, three wire power

Convenience: Enjoy using standard home electrical appliances. Your DR1512/1524, DR2412/2424 and DR3624 converts 12 or 24 volt battery energy into utility type power. Hand tools, lights, televisions, microwaves, computers—almost all household appliances can be powered by your batteries. This even includes appliances such as refrigerators that demand high start-up power.

Automation: Plug into utility power or rev-up your generator and the DR model inverter starts charging your batteries and automatically transfers your AC input power to your AC electrical system. It charges rapidly and completely without overcharging and maintains the full charge indefinitely. The high power synchronous-rectification design charges batteries in three stages—bulk, absorption, and then float. When your AC input power fails, transfer to inverter power is also automatic and typically within 16 milliseconds.

Protection: For optimum battery charging, a unique temperature compensation circuit utilizes an optional remote probe to automatically adjust charge voltage to battery temperature. In the inverter mode, if your batteries run seriously low, an adjustable over-discharge protection circuit automatically turns off the inverter to protect your batteries. Other design features protect against undercharging, overload, and accidental connection of an AC source to an AC outlet.

Easy to use: The front panel has easy to understand LEDs, that provide status information, and adjustments which control functions such as load sensitivity, over-discharge protection, maximum charge rate and more.

Rugged: Designed for maximum service, all the DR Series inverters offer a powder-coated chassis, stainless-steel fasteners, conformal-coated circuit board, and gold-plated connectors. AC wiring terminates cleanly inside the wall-mountable chassis.

Versatile: Remote prime power, utility back-up power systems, industrial applications, standby power systems (SPS/UPS).

*"I'm going to try to make it short and simple. Your inverter is the most reliable and incredible device I own. After a history of miserable experiences with other makes, your unit is a pleasure."
Frederic M.A. Levine, Vermont*

From
Trace Engineering,
manufacturer of
the world's most
advanced and
reliable inverters

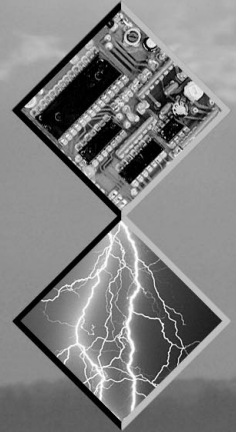


THE POWER COMPANY
Trace
ENGINEERING®

Model DR Series

SPECIFICATIONS

Specifications	DR1512	DR2412	DR1524	DR2424	DR3624
Continuous Power @ 25°C	1500 VA	2400 VA	1500 VA	2400 VA	3600 VA
Maximum AC Surge Current	28 amps	52 amps	40 amps	72 amps	100 amps
Peak Efficiency	94%	94%	94%	95%	95%
Nominal DC Input Voltage	12 volts	12 volts	24 volts	24 volts	24 volts
Input Voltage Range	10.8 to 15.5 volts	10.8 to 15.5 volts	21.6 to 31.0 volts	21.6 to 31.0 volts	21.6 to 31.0 volts
DC Input Current					
Search Mode	0.045 amps	0.045 amps	0.030 amps	0.030 amps	0.030 amps
Full Output	0.700 amps	0.900 amps	0.350 amps	0.450 amps	0.500 amps
Rated Power	165 amps	280 amps	80 amps	140 amps	210 amps
Waveform	modified sine wave	modified sine wave	modified sine wave	modified sine wave	modified sine wave
Voltage Regulation	+/- 5%	+/- 5%	+/- 5%	+/- 5%	+/- 5%
Frequency Regulation	+/- 0.04%	+/- 0.04%	+/- 0.04%	+/- 0.04%	+/- 0.04%
Power Factor Allowed	-1 to 1	-1 to 1	-1 to 1	-1 to 1	-1 to 1
Automatic Load Sensing	5 to 100 watts	5 to 100 watts	5 to 100 watts	5 to 100 watts	5 to 100 watts
Output Voltage					
"E" Models	120 vac / 60 Hz	120 vac / 60 Hz	120 vac / 60 Hz	120 vac / 60 Hz	120 vac / 60 Hz
"J" Models	230 vac / 50 Hz	NA	230 vac / 50 Hz	230 vac / 50 Hz	NA
"K" Models	105 vac / 50 Hz	NA	105 vac / 50 Hz	105 vac / 50 Hz	NA
"W" Models	105 vac / 60 Hz	NA	105 vac / 60 Hz	105 vac / 60 Hz	105 vac / 60 Hz
"V" Models	220 vac / 60 Hz	NA	220 vac / 60 Hz	NA	NA
Series Operation for 120/240 vac	Yes, using 2 units	Yes, using 2 units	Yes, using 2 units	Yes, using 2 units	Yes, using 2 units
Automatic Transfer Relay					
"E" Models	30 amps	30 amps	30 amps	30 amps	35 amps
"J, K" Models	15 amps	NA	15 amps	15 amps	NA
Adjustable Charging Rate	0 to 70 amps	0 to 120 amps	0 to 35 amps	0 to 70 amps	0 to 70 amps
Number of Charging Profiles	8 and 2 EQ modes	8 and 2 EQ modes	8 and 2 EQ modes	8 and 2 EQ modes	8 and 2 EQ modes
Three Stage Charging	Yes	Yes	Yes	Yes	Yes
Battery Temp Comp Sensor	Optional	Optional	Optional	Optional	Optional
Remote Control/Status LED	Optional	Optional	Optional	Optional	Optional
Specified Temperature Range	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C
Weight					
"E" Models	35 lbs (16 kg)	45 lbs (16 kg)	35 lbs (16 kg)	40 lbs (19 kg)	45 lbs (21 kg)
"J, K" Models	39 lbs (18 kg)	NA	39 lbs (18 kg)	45 lbs (21 kg)	NA
Dimensions - inches	8.5" x 7.25" x 21"	8.5" x 7.25" x 21"	8.5" x 7.25" x 21"	8.5" x 7.25" x 21"	8.5" x 7.25" x 21"
- centimeters	21.6 x 18.4 x 54.6	21.6 x 18.4 x 54.6	21.6 x 18.4 x 54.6	21.6 x 18.4 x 54.6	21.6 x 18.4 x 54.6
Mounting	Shelf or Wall	Shelf or Wall	Shelf or Wall	Shelf or Wall	Shelf or Wall

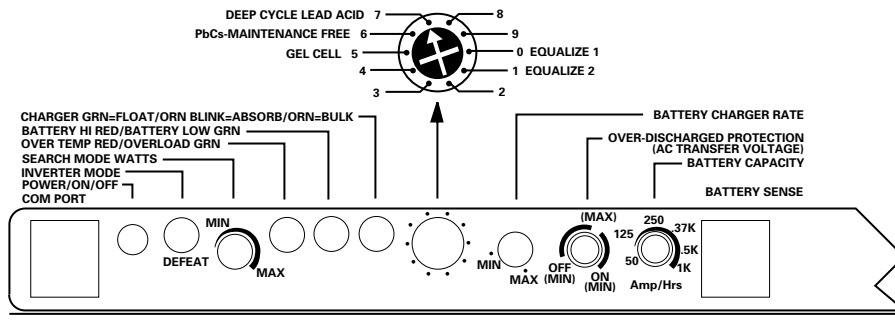


*specifications may change without notice

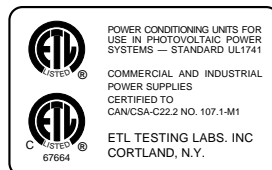
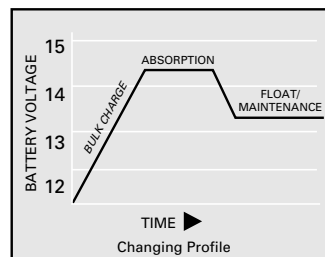
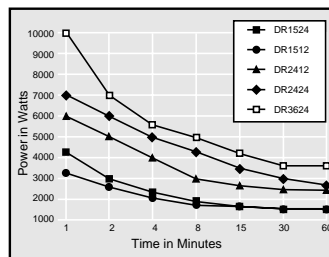
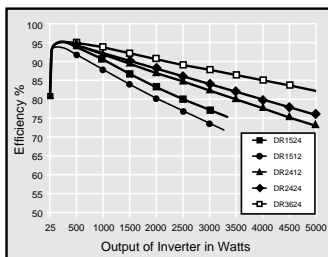
*All power specifications based on 25°C ambient and resistive loads.

Options: Remote control panel (RC4), series operation interface cable (DRI), battery temperature sensor (BTS).

Battery Type Selector



Monitor and Control Face Plate



Available From: