



BRAVO 1800

Inverter/Charger System

Mobile & Standby AC Power For...

Power Tools, Microwave Ovens, Telephone Systems,
Test Instruments, Televisions & VCRs, Personal Computers,
Refrigerator/Freezers, Security Systems

AC Power Made Reliable,
Quiet and Compact



Your Source for Reliable AC Power

Bravo® 1800s are reliable high performance inverters and inverter/chargers designed to provide the power you need to get the job done. Once connected to a battery, the 1800 converts DC power into clean, quiet modified sine wave* AC power to operate tools, test equipment, and appliances.

Your Standby AC Power Source

Bravo® 1800s can be installed as a standby AC power backup system when shore-power is available. When shore power is not available the inverter provides power to the AC loads from the batteries. After shore power returns, the 1800's automatic transfer switch reconnects the load back to shore power and the built-in battery charger automatically activates to recharge the batteries.

Your Source for Peak Battery Performance

Simply by plugging into shore power, the Bravo® becomes a high performance automatic three-stage charger (80 amp/12 volt) ensuring your batteries will last and always be providing peak power. Efficient battery charging is achieved with three distinct charging modes. The Bravo® 1800 continuously charges the batteries until they have equalized (Charge or Bulk mode) and then maintains their voltage until they are fully charged (Absorption mode); then it maintains the batteries at their correct voltage (Ready or Float mode) using minimal charging current. The charging current is adjustable; a High setting is Rated current and a Low setting is 1/2 Rated current.

* Modified sine wave output is sometimes incompatible with certain loads.
Please consult factory for details, if you have waveform sensitive loads.

POWER TO GET
THE JOB DONE!





Bravo® Features Are Designed Smart...



Load Demand

Your Bravo® inverter is engineered with user-selectable automatic load sensing. This turns on the inverter from the power saving mode when your AC load exceeds 5 watts, conserving your battery power.

Low Battery Cutoff

Your Bravo® is designed smart—it knows to turn off automatically when the battery reaches 10.5 volts (21.0 volts on 24 volt units). This extends the life of your batteries by preventing over-discharging and ensuring your vehicle starts. Many times this feature eliminates the need for a battery isolator.

Automatic Inverter Protection Circuitry

You don't need to worry about the status of your inverter. The Bravo® 1800 inverter is smart enough to sense an over-temperature or overload condition and turns itself off.

Inverter/Charger Status Lights

To make operation easy the 1800 inverter has up to six inverter/charger indicator lights to show you which function is in operation. So you'll always know what your inverter/charger system is doing.

Two Mounting Designs

We designed the Bravo® 1800 in shelf and wall mount configurations to meet a variety of application needs. The wall mount version is available with an optional drip shield to provide additional environmental protection.



Optional Remote Panel



The 1800 is available with this optional remote panel (p/n D05034) allowing you to operate your inverter from convenient locations. The remote panel has an inverter on/off switch with indicator LEDs for inverter status, battery charge, and fault mode conditions.

Mobile Installations

We recommend always using deep cycle auxiliary RV/Marine/Golf cart batteries. A Bravo® 1800 watt inverter under full load can require up to 170 amps 12V or 85 amps 24 Vdc. We suggest a minimum of 170 AH of 12 Vdc battery storage capacity on the vehicle to support inverter loads. If AC loads are large and operate in excess of one hour per day, a heavy duty alternator (100-130 amps +) is usually recommended.

POWER TO GET THE JOB DONE!



Most Bravo Units are Underwriters Laboratories Listed; check factory for details.

BRAVO® 1800 INVERTER/CHARGER SPECIFICATIONS

MODEL NUMBERS	BR12-1800SH BR12-1800SG	BRC12-1800SH	BRC12-1800SH	BRC12-1800SH	BRC12-1800SH
AC Output Power:					
Continuous	1800 Watts	1800 Watts	1800 Watts	1800 Watts	1800 Watts
Surge (3 sec.)	3600 Watts	3600 Watts	3600 Watts	3600 Watts	3600 Watts
Output Voltage	120 Volts ± 5%	120 Volts ± 5%	120 Volts ± 5%	230 Volts ± 5%	230 Volts ± 5%
Frequency	60 ± 0.1Hz	60 ± 0.1Hz	60 ± 0.1Hz	50 ± 0.1Hz	50 ± 0.1Hz
Output Waveform	Modified Sine Wave	Modified Sine Wave	Modified Sine Wave	Modified Sine Wave	Modified Sine Wave
DC Input:					
Range	10.5-16.0 Vdc	10.5-16.0 Vdc	21.0-32.0 Vdc	10.5-16.0 Vdc	21.0-32.0 Vdc
Charger:					
DC Output (High/Low)	N/A	80/40 Amps	40/20 Amps	80/40 Amps	40/20 Amps
AC Input	120 Volts Nominal	120 Volts Nominal	120 Volts Nominal	230 Volts Nominal	230 Volts Nominal
System:					
Ambient Temperature	-20 to +105° F (-29 to + 40° C)				
Cooling Air	Thermostatically controlled, fan cooled 30 cfm				
Enclosure	White painted aluminum with noncorrosive hardware				
Weight	35 lbs				
Dimensions	6.1" H x 15.3" W x 12.3" D				
Wiring Method:	Model numbers ending with "H" are for Hardwire applications, Model numbers ending with "G" have a GFCI Outlet				
AC Output	Model numbers ending with "H" are for Hardwire applications, Model numbers ending with "G" have a line cord				
AC Input/Power Transfer Time	N/A	Hardwired/30ms			
Model numbers ending with "S" are a Shelf mount configuration, Model numbers ending with "W" are a Wall mount configuration					

SAMPLE SPECIFICATION

Supply DC to AC solid state modified sine wave power inverter system capable of continuous output of 1800 watts 120 ± 5% true RMS single phase AC power. Frequency regulation shall be ± 0.1Hz. Input voltage to be _____ (12, 24) Vdc nominal. Inverter must be able to provide at least 3000 watts surge for 3 seconds and operate resistive, reactive, and inductive electrical loads. Inverter to be supplied with low/high battery voltage shut-off, auto-load demand (and optional three stage battery charger). Weight shall not exceed 35 pounds. High frequency light duty switch mode inverters are not acceptable. Vanner Power Group model _____ or equal.



All Vanner products come with a two-year (2) warranty from date of installation or two and one-half (2½) years from date of manufacture from the Vanner factory. To the best of our knowledge the statements, specifications, and instructions in this document are correct. No warranty is made, expressed or implied by the seller or manufacturer with respect to any results or lack thereof from the use of information in this document and no liability is assumed for any direct or indirect damages, personal loss or injury. All statements made within this document are to be applied or relied upon at the user's risk.

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