



Bravo Inverter/Charger System

Mobile & Standby AC Power for:

**Power Tools, Microwave Ovens,
Telephone Systems, Test Instruments,
Televisions, VCRs, Personal Computers,
Refrigerators, Freezers, and
Security Systems.**



AC Power Made Reliable, Quiet and Compact.

Your Source for Reliable AC Power

Bravo® 1050's 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 1050 converts DC power into clean, quiet modified sine wave* AC power to operate tools, test equipment, and appliances.

Your Standby AC Power Source

Bravo® 1050s 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 1050'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 (55 amp) ensuring your batteries will last and always provide peak power. Efficient battery charging is achieved with three distinct charging modes. The Bravo® 1050 continuously charges the batteries until they have equalized (Charge or Bulk mode) and then maintains their voltage until they are fully charged (Absorption mode). Finally, the 1050 maintains the batteries at their correct voltage (Ready or Float mode) using minimal charging current.

Plug and Play System

No special tools or installation kits needed for installation.

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



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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, thereby conserving your battery power.

Low Battery Cutoff

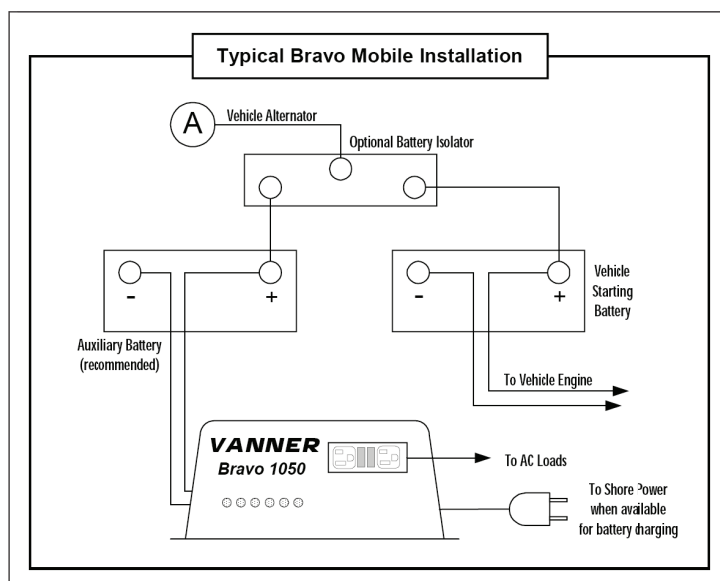
Your Bravo® is designed smart—it knows to turn off automatically when the battery reaches 10.5 volts (21.0 volts on 24 volt units). This extends the life of your batteries by preventing over-discharging and ensuring your vehicle starts. Many times this feature eliminates the need for a battery isolator.

Automatic Inverter Protection Circuitry

You don't need to worry about the status of your inverter. The Bravo® 1050 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 1050 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.



Installation

We recommend always using deep cycle auxiliary RV/Marine/Golf cart batteries unless your AC loads are small and intermittent. Generally, a vehicle alternator that is 75 amps or larger is sufficient for the Bravo® 1050.



Most Bravo® units are Underwriters Laboratories Listed; check with Vanner online instruction manual for details.

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BRAVO® 1050 Inverter/Charger Specifications		
MODEL NUMBERS UL Listed	QBC 10-12/120-60H QBC 10-12/120-60G QBC 10-12/230-50H	QBC 10-24/120-60H QBC 10-24/120-60G
AC Output Power:		
Continuous	1050 Watts	
Surge (3 sec.)	2100 Watts	
Output Voltage	120 Volts ± 5%	
Frequency	60 ± 0.1Hz	
Output Waveform	Modified Sine Wave	
DC Input:		
Range	10.5-16.0 Vdc	21.0-32.0 Vdc
Charger:		
DC Output (High/Low)	55/15 Amps	27.5/14 Amps
AC Input	120 Volts ± 10%	
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	22 lbs	
Dimensions	5.88" H x 11.62" W x 11.0" D	
Wiring Method:		
AC Output	Model numbers ending with "H" are for Hardwire applications. Model numbers ending with "G" have a GFCI Outlet.	
AC Input/ Power Transfer Time	Model numbers ending with "H" are for Hardwire applications. Model numbers ending with "G" have a line cord. Hardwired/30ms	

Vanner's policy is one of continuous improvement. We reserve the right to change specifications without notice.

SAMPLE SPECIFICATION

Supply DC to AC solid state modified sine wave power inverter system capable of continuous output of 1050 watts ± 5% true RMS single phase AC power. Frequency regulation shall be ± .003%. Input voltage to be 12-24 Vdc nominal. Inverter must be able to provide at least 50% of rated capacity 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 25 pounds. High frequency, light duty switch mode inverters are not acceptable.

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