



Patriot IQ Series

AC Power Inverter or Inverter/Charger

Specially designed for mobile and standby AC power for power tools, microwave ovens, telephone systems, test instruments, televisions, security systems and more.



Your Source for Reliable AC Power

The IQ is a reliable high performance inverter or inverter/charger designed to provide the power you need to get the job done. Once connected to a battery, the IQ converts DC power into clean, quiet modified sine-wave* AC power to operate tools, test equipment, and appliances. IQ units with the charger option include a built-in transfer switch. When shore power is not available this inverter provides power to the AC loads from the batteries. After shore power returns, the IQ'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 IQ (with charger option) becomes a high performance automatic three-stage charger, ensuring your batteries will last and always be providing peak power. Efficient battery charging is achieved with three distinct charging modes: Bulk, Absorption, and Ready or Float Mode. The unit continuously charges the batteries until they are approximately 80% charged (Bulk mode) and then maintains their voltage until they are fully charged (Absorption mode); finally, the IQ maintains the batteries at their correct voltage (Ready or Float mode) using minimal charging current. Charging current is adjustable in 8 amp increments up to 120 amps for 12 volt models (4 amp increments up to 60 amps for 24 volt models).

Load Demand

Your IQ is engineered with installer-selectable automatic load sensing. This turns on the inverter from the power saving mode when your AC load exceeds 5 watts. This conserves your battery power.

Low Battery Cutoff

Your IQ is designed 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. 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 IQ is smart enough to sense an over-temperature or overload condition and turns itself off.

Inverter/Charger Status Lights

To make operation easy the IQ has 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.

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Dead Battery Start

Even when a battery is completely discharged, the IQ battery charger and transfer switch are still operational (IQ inverter/charger models only).

Flexible Installation

The IQ utilizes unique detachable mounting brackets that allow the unit to be installed in many positions. All AC input/outputs and serviceable parts are connected easily from the front of the unit making installation a snap.

Optional Remote Panel (p/n D07869)

The IQ is available with an optional remote panel 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.

Installation

We recommend always using deep cycle auxiliary RV/Marine/Golf cart batteries. If AC loads are large and operate in excess of one hour per day, a heavy duty alternator (190 amps+) is recommended.

**Modified sine-wave output may be incompatible with certain loads. Please consult factory for details.*

MODEL	IQ12-2600	IQC12-2600	IQ12-3600	IQC12-3600	IQC24-3600
Cont. Watts (40C)	2600	2600	3600	3600	3600
Surge Power Amps	65	65	80	80	80
Output Voltage	120Vac +/- 5% (all units)				
Frequency Reg.	60Hz +/- 0.1% (all units)				
Battery Voltage	12	12	12	12 or 24	24
Battery Charger	N/A	120	N/A	120	60
Load Transfer Switch	N/A	30 Amp	N/A	30 Amp	30 Amp
Load Demand	Yes	Yes	Yes	Yes	Yes
Auto. Protection Circuitry	Safety shutdowns for Batt Low - Over Temp - Over Load (all units)				
Status Indicators	Inverter On - Battery Low - Over Temp - Over Load (all units)				
Mounting	Multi-configure mounting brackets to custom fit the application need (all units)				
Weight	60 lbs	60 lbs	75 lbs	75 lbs	75 lbs
Dimensions	8.4"H x 17.5"W x 14.0"D				
Output Waveform	Modified Sine-wave				
<i>2600 and 3600 Models are all UL listed.</i>					

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

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