

## Get Connected with **Brilliance™ Grid Tie Solar Inverters**

### **Brilliance™ Inverters make installation efficient, easy, and affordable**

GE Energy's Brilliance™ Inverters offer a family of grid tie solar inverters designed with the knowledge and expertise of renewable energy dealers and installers. The result is a high performance series of inverters that makes utility interactive installations easy and cost effective. GE Energy's Brilliance™ high performance photovoltaic (PV) string inverters offer high efficiency, low installed cost, clean design and high reliability. The Brilliance™ series includes high quality inverters that offer the best price versus performance in the industry backed with a GE 10 year warranty.

### **High performance string inverters**

- Peak and average efficiency greater than 94% maximizes your PV investment
- Fast MPPT algorithm ensures maximum energy harvest from your array under any conditions
- Excellent thermal performance provides full rated power up to 140°F (40°C)
- FCC Class A & B compliance means less potential interference with communication, radio, and consumer electronics

### **Easy and inexpensive to install**

- Includes integrated AC/DC disconnect that is NEC compliant as a DC disconnect
- Includes a lightweight and versatile mounting bracket that simplifies installation
- Offers wide MPPT PV module input voltage range to make module selection and string sizing extremely flexible



### **Advanced modular design**

- Modular design allows Brilliance™ Grid Tie Inverters with the same or different power levels to be mounted side-by-side using the wiring box as a wiring raceway
- Easy access PV and utility terminal block simplifies wiring
- Wiring box can be separated from the sealed inverter enclosure allowing DC/AC connections to remain intact in the unlikely event that the inverters need to be serviced
- Rugged NEMA3R inverter enclosure allows reliable outdoor and indoor installations

### **Full feature inverter display and communications available day or night**

- Includes Vacuum Fluorescent Display providing Inverter model number, instantaneous power, lifetime energy production, PV array voltage, and current utility voltage, and fault messages.
- Bright LED indicators provide system status at a glance
- The Brilliance monitoring module is a UL approved data acquisition and communication interface that enables secure access to system performance and status information over a LAN connection.

### **Certifications**

Brilliance™ Inverters meet the following requirements:



imagination at work

# GE Energy Brilliance™ Grid Tie Solar Inverter

## Electrical Specifications

Inverter Model	GEPVe-1100-NA-120	GEPVe-2000-NA-240	GEPVe-2500-NA-240	GEPVe-2800-NA-208	GEPVe-3000-NA-240	GEPVe-3500-NA-240	GEPVe-4800-NA-240	GEPVe-4600-NA-208
Continuous AC power output	1100	2000	2500	2800	3000	3500	4800	4600
Power factor @ > 50% power	.99-1.0	.99-1.0	.99-1.0	.99-1.0	.99-1.0	.99-1.0	.99-1.0	.99-1.0
Maximum DC Input Voltage (VOC)	500	500	500	500	500	500	500	500
DC Input Voltage Range	115-500	115-500	140-500	180-500	170-500	200-500	200-500	205-500
DC Isc Maximum Current	26	26	26	26	26	26	48	48
DC Imp Nominal Current	10	18	20	16	18	18	26	25
DC Voltage Operating Range	115-450	115-450	140-450	180-450	170-450	200-450	200-450	205-450
AC Nominal Voltage (V)	120	240	240	208	240	240	240	208
AC Output Voltage Range	106-133	211-264	211-264	183-229	211-264	211-264	211-264	183-229
AC Frequency Nominal	60	60	60	60	60	60	60	60
AC Frequency Range	59.3-60.5	59.3-60.5	59.3-60.5	59.3-60.5	59.3-60.5	59.3-60.5	59.3-60.5	59.3-60.5
AC Maximum Continuous Current (A)	10	9	11	14	13	15	23	23
Current THD	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
Peak Efficiency	92.5	93.5	95.8	93.1	94.3	96.7	97.2	96.5
Weighted CEC Efficiency (%)	90.5	92	94.5	92	93.5	95.5	96.0	95.5
Night-time Power consumption	< 3 Watts	< 3 Watts	< 3 Watts	< 3 Watts	< 3 Watts	< 3 Watts	< 3 Watts	< 3 Watts
Output overcurrent protection	20	20	26	20	20	26	26	26

## Mechanical Specifications

Operating temperature range	-13°F to +109°F (-25°C to +40°C)
Enclosure type	NEMA3R (outdoor rated)
Shipping dimensions: 1100-3500 (H x W x D)	15 x 20 x 36" (38.1 x 50.8 x 91.4 cm)
Shipping dimensions: 4600, 4800 (H x W x D)	15.3 x 23 x 40" (38.9 x 58.4 x 101.6 cm)
Mounting	Wall mount (mounting bracket included)

## Features

PV/Utility disconnect	Eliminates need for external PV (DC) disconnect. Complies with NEC requirements.
Cooling	Convection cooled, fan not required.
Display	Vacuum Fluorescent Display (VFD) providing Inverter model number, instantaneous power, lifetime energy production, PV array voltage, and current utility voltage, and fault messages.
Communications	Web based data acquisition and communication interface
Wiring box	PV, utility, ground, and communications connections. The inverter can be separated from the wiring box.
Warranty	10-year standard.



For more information about GE Energy's Brilliance™ Grid Tie Solar Inverters, visit [www.ge-energy.com/solar](http://www.ge-energy.com/solar).

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