

www.geokingsolar.com

Geoking Solar Power Generators



Q L Enterprises, Inc.
2865 N Berkeley Lake Road NW, Suite 2, Duluth, GA 30096
Tel.: (678)957-1187 Fax: (678)957-1159 email: sales@geosolution.com



Solar Power Generator PG-600

www.geokingsolar.com

Geoking Solar Power Generator PG-600

Our PG-600 integrates XPower Powerpack 600 with our high effective solar PV modules. It is portable, powerful, and easy to use.

XPower Powerpack 600

Powered by a rechargeable 28AH battery, the Powerpack 600HD provides up to 600W of AC power. It can jump start a car, truck, boat or small RV. The system also operates a wide range of DC products. Ideal for power emergencies, Powerpack 600HD comes with a built-in emergency light and jumper cables. Integrated AM/FM radio and digital alarm clock provides access to music, talk radio and news. Whether it's a job site or a camp site, the Powerpack 600HD is the ideal portable backup power solution.



PG-600 with 20W non-glass solar panel

Features:

- Runs 115-volt AC (3 outlets)
- Runs 12-volt DC (1 outlet)
- Built-in 600 watt inverter
- Sealed, non-spillable 28 amp-hour AGM battery
- AM/FM radio
- Digital alarm clock
- Jumper cables designed for safe and efficient jump-starting
- Built-in light provides illumination in emergency situations at home and on the road
- 3-digit display allows for easy battery status monitoring
- Audible alarm signals overheat and under voltage conditions
- Overload and over-temperature protection to ensure longer inverter life
- Recharge at home or from a vehicle

Applications:

- Jump-starts vehicles
- Charges cordless and cellular phones
- Powers emergency light, TVs and radios
- Provide access to news radio and emergency broadcast
- Runs small power tools
- Runs hand-held blenders, fans, computers, laptops, clock radios



PG-600 with Powerfilm 20W Foldable solar charger

Q L Enterprises, Inc.

2865 N Berkeley Lake Road NW, Suite 2, Duluth, GA 30096

Tel.: (678)957-1187 Fax: (678)957-1159 email: sales@geosolution.com



Solar Power Generator PG-600

www.geokingsolar.com

Geoking Solar PV Modules for PG-600

You can select one of the following options:

1. Geoking 20W non-glass frameless polycrystalline solar panels.
2. Powerfilm 20W foldable solar charger.

PG-600 Specifications

DC-to-AC Inverter	
AC output power (max. continuous)	480 W
AC output power (5 minutes)	600 W
AC surge power (peak)	960 W
AC output voltage (nominal)	115 V
AC output frequency	60 Hz +/-4 Hz
AC output waveform	Modified sine wave
Inverter no-load current	< 0.20 amps
Battery	
Internal battery type	Sealed lead acid, AGM
Internal battery capacity	28 amp-hours, 200 CCA
Internal battery voltage	12 VDC (nominal)
DC power socket (circuit breaker)	12 amps (automatic reset)
Solar Panels (Two Options)	
(1) 20W non-glass module	20W, 17.3V, 1.16A
(2) 20W foldable solar charger	20W, 15.4V, 1.2A
Charging system	
AC charger bulk charging current	1 Amp (maximum)
Peak charging voltage	14.2 V (nominal)
Charge restart voltage	12.9 V (nominal)
Float charge current	1 mA (nominal)
Charger input socket current	2.5 amps (maximum)

Charging time (when battery is totally discharged, otherwise will be shorter)	
Using AC Power	35 hours
Using DC power through vehicle	4 hours
Using one 65W Solar panel	6 hours
Using one 20W Solar panel	20 hours
General	
Jump-start cables	24" (61cm), 4 AWG
Radio	AM 526-1606 KHZ / FM 82-105 MHZ
Built-in incandescent light	5 W (replaceable)
Operating/storage temperature	32° F - 104° F (0° C - 40° C) / 32° F - 86° F (0° C - 30° C)
Inverter low battery alarm	11.0 volts (nominal)
Inverter low battery shutdown	10.5 volts (nominal)
Inverter and Battery weight	31 lbs
Solar Panel weight	65W panel 13 lbs, 20W non-glass panel 2.1 lbs/ea, 20W foldable panel 1 lb

Q L Enterprises, Inc.

2865 N Berkeley Lake Road NW, Suite 2, Duluth, GA 30096

Tel.: (678)957-1187 Fax: (678)957-1159 email: sales@geosolution.com



Solar Power Generator PG-1800S

www.geokingsolar.com

Geoking Solar Power Generator PG-1800S

Our PG-1800S Solar Electronic Generator integrates Xantrex's PowerSource 1800 with our foldable high effective solar PV charger. It is portable, powerful, and easy to use.

The PG-1800S is the perfect backup power solution for essential home appliances, emergency power electronics and full size office equipment during a power outage. The system will supply up to twelve hours of uninterrupted backup power for a small office, and up to eight hours of runtime for essential home appliances and small electronics during a power outage.

The PG-1800S can switch to backup power automatically when a power outage occurs. This happens seamlessly so the home appliances and electronic devices that are hooked up to it won't sense the power outage. They'll run off the PG-1800S's charged battery for hours. When grid power returns, the PG-1800S switches the devices back to utility power, recharges its internal battery and enters a standby mode until the next outage occurs.



PG-1800S Features

- 1800W inverter with five 115 VAC power outlets for operating multiple devices simultaneously
- Built-in transfer relay provides reliable backup power capability
- Bright LED light turns on automatically when power outage occurs to provide illumination over the AC outlets
- Digital LED display indicates battery capacity status and total wattage of the devices connected to the PowerSource
- Audible alarm signals 10 minutes before the PowerSource runs out of battery power
- Integrated handles for easy transportation
- Foldable 80W high effective solar panels with charge controller
- Overload and over-temperature protection to ensure longer PowerSource life
- Sealed, non-spillable 51 amp-hour AGM battery
- Recharges from home AC wall outlet

PG-1800S Applications

Home Backup Power: Will run a fridge, freezer, sump pump and 1000W microwave, fish tank light and air pump, home alarm system and garage door

Emergency Power: Will run essential electronics such as a 20" TV, radio, fan, mobile and cordless phone, and a 40W emergency light

Small/Home Office Backup Power: Will run a laptop, desktop and 20" LCD or CRT monitor, 600 W office lamp, inkjet printer, 4-in-1 copier/printer/fax/scanner, internet modem, VoIP phone, mobile phone and cordless phone

Q L Enterprises, Inc.

2865 N Berkeley Lake Road NW, Suite 2, Duluth, GA 30096

Tel.: (678)957-1187 Fax: (678)957-1159 email: sales@geosolution.com



Solar Power Generator PG-1800S

www.geokingsolar.com

PG-1800S Specifications*

AC output power (max. continuous)	1440 W (2300 VA)
AC output power (5 minutes)	1800 W (2900 VA)
AC output surge capacity (peak)	3600 W
AC output voltage	120 Vac/60 Hz
Internal AC charger	5 A
Transfer switch	15 A max / < 80 milliseconds
Internal battery	51 Ah, sealed, lead-acid
PowerSource Weight	55 lb (24.9 kg)
PowerSource Dimensions (L x W x H)	18.5 x 8.5 x 10.5" (47 x 21.6 x 26.7 cm)
Solar Panel Power (max.)	40W x 2
Solar Panel Voltage (max.)	17.3 V
Solar Panel max. charging current	4.63 A
Solar Panel Weight	23 lb (10.5 kg)
Solar Panel Dimensions (folding)	24 x 20 x 3.3"

*Specifications may change without notice.

PG-1800S Charging Times

Battery Discharge Level	100%	75%	50%	25%
Recharging from 120Vac	15 hr.	11 hr.	7 hr.	4 hr.
Recharging from Solar	17 hr.	13 hr.	8 hr.	5 hr.

PG-1800S Run Times

Office Applications

- Laptop (20W): 22 hr
- Inkjet printer (8W): 46 hr
- Cell phone (5W): 63 hr
- Wireless modem/router (6W): 56 hr
- Table lamp (40W): 10 hr 30 min
- Desktop computer (200W): 1 hr 30 min
- 20" LCD monitor (52W): 7 hr 30 min

Emergency Power Applications

- Cordless phone (5W): 63 hr
- Clock radio (8W): 46 hr
- 13" CRT TV (38W): 11 hr
- 20" LCD TV (75W): 5 hr 10 min

Home Backup Power Applications

- 18 cu. ft. fridge (120W): 2 hr 45 min
- 8.8 cu. ft. freezer (80W): 4 hr 30 min
- Sump pump 1/2 hp (300W): 1 hr
- Home alarm system (5W): 63 hr
- Microwave (920W): 12 min



Q L Enterprises, Inc.

2865 N Berkeley Lake Road NW, Suite 2, Duluth, GA 30096
Tel.: (678)957-1187 Fax: (678)957-1159 email: sales@geosolution.com



Solar Power Generator PG-1800H

www.geokingsolar.com

Geoking PG-1800H Solar Electronic Generator integrates Xpower PowerHub 1800 with high effective solar PV modules and TriStar charge controller.

The PowerHub converts power stored in deep cycle batteries to 1800 watts of household power to operate your essential applications. It provides an affordable, high output, primary power solution for an off-grid cottage or cabin, as well as backup power for grid-connected homes when the power goes out. Setting up this power system is simple and hassle-free with built-in fuses, breakers, and cables. The PowerHub is designed to be part of a system that allows you to easily connect to and charge your batteries with solar and wind inputs, and allows for pass-through generator output or generator charging of the batteries as well. And, its advanced automatic power transfer switching ensures your essential applications keep running in your grid-connected home should the power go out.



Product Features

- Modified sine wave inverter/charger with battery box, solar panels, and charge controller
- Flexible and expansible power storage: they system can connect one or two battery boxes, which can store 200 – 400 amp-hours of battery power
- Flexible and expansible solar power charging capability: The solar panels provide power from 300 Watts/hour up to 720 Watts/hour
- Designed to include a generator as part of the system; generator power can pass through the unit to the AC outlets, and recharge the batteries
- Integrated transfer switch
- 40-amp three-stage AC charger
- Up to 40 Amp solar power charger with TriStar solar charge controller
- Four AC outlets with hardwire option
- Two DC inputs for solar and/or wind connections
- Full-feature LED display for system monitoring

Q L Enterprises, Inc.

2865 N Berkeley Lake Road NW, Suite 2, Duluth, GA 30096

Tel.: (678)957-1187 Fax: (678)957-1159 email: sales@geosolution.com



Solar Power Generator PG-1800H

www.geokingsolar.com

Xpower PowerHub 1800 Data Sheet

Inverter Specifications

Maximum power: 1800W
 Continuous power: 1440W
 Surge rating: 2880W
 Output current (continuous): 12A
 Output voltage: 115Vac +/- 10Vac
 Output frequency: 60 Hz +/- 1 Hz
 Output waveform: Modified sine wave
 Peak efficiency: 88%
 No-load battery power draw: <12W
 No-load battery power draw (unit off): <3W
 Input operating voltage range: <10.5-15.0Vdc
 AC outlet Fuse: 15A breaker
 Battery box Fuse: 10 x 20 A
 Transfer time: < 40 milliseconds
 Operating temperature: 32°F-104°F (0°C-40°C)
 Storage temperature: -4°F-140°F (-20°C-60°C)
 AC receptacles: 4
 AC hardwire terminal block: 15A max

Battery Charger Specifications

Output current: 0/10/40 A
 Output voltage:
 Charge: 14.2 Vdc
 Float: 13.7 Vdc
 Recharge: 12.5 Vdc
 AC input voltage: 115 Vac 50/60 Hz
 Charger efficiency: 80% approximate
 Charging type: Three-stage

Physical Specifications

Inverter dimensions:
 14.1x8.0x16.1" (35.8x20.3x41cm)
 Battery box dimensions:
 13.9 x 13.9 x 20" (35.2 x 35.2 x 50.8 cm)
 Weight inverter: 27.3 lb (12.4 kg)
 Weight battery box: 29.0 lb (13.15 kg)

PowerHub 1800 Runtimes (single battery box with 200 AH battery)

<u>Office Applications</u>	<u>Watts</u>	<u>Runtime</u>
Laptop	65	22 hr
Inkjet printer	8	218 hr 20min
Cell phone	5	396 hr
Table lamp	25	54 hr 45 min
17" LCD monitor	35	49 hr 50 min
Table light 40W	40	43 hr
Table light 60W	60	26 hr 40 min

Emergency Power Applications

Cordless phone	5	396 hr
Clock radio	8	218 hr 20min
13" CRT TV	50	30 hr 10 min
20" LCD TV	370	3 hr 20 min

Home Backup Power Applications

18 ft³ fridge	120	15 hr 25 min
8.8 ft³ freezer	80	20 hr 20 min
Sump pump (1/2 hp)	300	4 hr 29 min
Home alarm system	5	396 hr
Microwave	1000	1 hr 43 min
Coffee maker	1200	1 hr

Q L Enterprises, Inc.

2865 N Berkeley Lake Road NW, Suite 2, Duluth, GA 30096

Tel.: (678)957-1187 Fax: (678)957-1159 email: sales@geosolution.com



Solar Power Generator PG-1800H

www.geokingsolar.com

Solar Power Generator PG-1800H-I



Geoking solar Power Generator PG-1800H-I. System includes: Xpower PowerHub 1800, 2x180W solar panel, TriStar 40A charge controller, 2x 100Ah SLA batteries, Z mount kit, and connection cable and adapter.

Optional accessories: heavy duty deck dolly, solar panel ground mount.

Solar Power Generator PG-1800H-II

Geoking solar Power Generator PG-1800H-II. System includes: Xpower PowerHub 1800, 2nd Battery Box, 4x180W solar panel, TriStar 40A charge controller, 4x 100Ah SLA batteries, Z mount kit, and connection cable and adapter.

Optional accessories: heavy duty deck dolly, solar panel ground mount.



Q L Enterprises, Inc.

2865 N Berkeley Lake Road NW, Suite 2, Duluth, GA 30096

Tel.: (678)957-1187 Fax: (678)957-1159 email: sales@geosolution.com