



HYBRID GENERATORS FOR THE SUB CONTRACTOR

WHAT IS A HYBRID GENERATOR?

The HG is a new concept in portable power. Solar Electrics has developed a unique generator to meet the needs of the residential construction industry, using time tested battery technology and advanced power conversion technology.

The HG virtually eliminates the need for fossil fuels while doing away with maintenance and the high levels of air and noise pollution which accompany conventional generators. It is also comparable in cost to high quality portable Gas and Diesel powered generators.

HOW DOES THE GENERATOR OPERATE?

OPERATION IS SIMPLE:

- During the day, a solar panel charges a heavy duty, deep cycle battery. The power conversion module converts the battery voltage to 120 volts AC, conventional household current.
- At night, the generator is plugged into an electrical outlet, to complete the charging process. The built in battery charger switches to a trickle charge mode, once the battery is fully charged.

FREQUENTLY ASKED QUESTIONS

WHERE CAN I USE THE SOLAR GENERATOR?

Use it almost anywhere a conventional generator would be used and it can remain in the back of the truck or van during use.

HOW MANY SAWS CAN THE UNIT POWER?

5-6 saws on a typical residential construction site, 5-6 saws plugged in, 3-5 saws used simultaneously

HOW LONG WILL THE BATTERY LAST BEFORE RECHARGING?

- 2-3 saws + radio + cordless tool chargers will run all day long on a single battery pack.
- 5-6 saws + radio + cordless tool chargers will run all day long on a double battery pack.
- AIR COMPRESSORS require a dedicated single battery pack for all day operation. In other words, to run 3 saws and a compressor, a double battery pack is required.

WHAT IF THE BATTERY RUNS LOW BEFORE THE END OF THE DAY?

The battery may lose power before the end of the work day if more than 5 saws are in constant use.

In the event that such a situation occurs, simply "jump start" the generator with the optional jumper cable just as you would jump start a car.

WHAT IS THE LIFE OF THE BATTERY?

Under recommended operating conditions battery life is 2½-3½ years, when used 200-250 days per year.

WILL THE GENERATOR OPERATE PROPERLY WITHOUT THE SOLAR PANEL?

The answer is **yes**. Whoever, regular use of the solar panel is highly recommended since the charge current from the solar panel extends operating time and overall battery life while reducing the amount of electricity purchased from the utility company to recharge the battery at night, thus helping to further reduce operating costs and air pollution.

THE ADVANTAGES

CONVENTIONAL 3,500 WATT GENERATOR VS HYBRID GENERATOR

	ELECTRICITY/ FUEL	ANNUAL MAINTENANCE	GREEN HOUSE GAS EMISSIONS	REPLACEMENT COSTS	TOTAL COST PER YEAR
HYBRID GENERATOR	\$90 /year	\$15	450 lb. / year	New battery every 3 years: \$600	\$272
CONVENTIONAL GENERATOR	\$2,000 / year	\$120 Oil and filters	8,500 lb. / year	New generator every 2-3 years: \$1,000	\$2,455

TOTAL COST PER YEAR IS BASED ON THE FOLLOWING:

- 4 gallons per day fuel consumption at \$2.50 per gallon. Utility rate of 10¢ per Kwh. \$1.25 per gallon distilled water
- Annual electricity/fuel + annual maintenance + replacement costs = Total cost per year
- 200 work days per year

SPECIFICATIONS

Model #	S3200	V4500
Replacement for:	3,500 watt generator	5,000 watt generator
Overload Capability 5 Second	4,800 Watts	5,800 Watts
Surge AC Capability	70 Amps	120 Amps
Overload Capability 30 Minutes	3,200 Watts	4,500 Watts
Continuous Power Rating	2,500 Watts	4,000 Watts
Weight	350 Lbs.	350 Lbs.
Size	37"L 21"W 20"H	37"L 21"W 20"H

PRICE

	Monthly payment	No. of payments	Tax credit
Hybrid Generator	\$96.46	48	\$1,185
Hybrid Generator	\$123.81	36	\$1,185
Hybrid Generator	\$178.69	24	\$1,185
Conventional gas generator	\$200+	FOREVER	\$0

Actual payment amount may vary and is determined by prevailing interest rates and buyer credit worthiness

SOLAR PANEL INSTALLATION

THE SOLAR PANEL CAN BE USED IN MANY WAYS, TWO EXAMPLES ARE SHOWN, OR ATTACHED IT TO THE ROOF OF A VAN OR TRUCK CAP.

HYBRID GENERATOR INCLUDES:

- Power conversion module
- Solar panel 21" x 47"
- Two, commercial duty, deep cycle batteries with Water Miser battery caps for low battery maintenance
- ON/OFF switch, four 120v receptacles, over current protection, 6' recharging cord with plug
- Equipment housing with ventilation fan, with optional wheels
- 25' extension cord
- Battery watering jug
- Full hands on instructions
- 1 year warranty



Typical setup



Custom setup with two solar panels on a pole