

3 to 25 kW DC Generators for:

- Telecommunications
- Prime Power
- BTS Sites
- Solar Hybrid Power Systems
- Uninterrupted Power Systems
- Emergency Back-up



Off-grid Hybrid site in New Mexico desert



Off-grid Hybrid site in Nevada desert



Off-grid Hybrid site in Alaska

Description

In foul weather a generator is needed the most; utility power can be interrupted, or the solar and wind power can diminish in capacity. This is the time when telecommunications are needed the most to support emergency services and keep families in contact with each other. Polar's unique All Weather Enclosure is designed to keep the generator operational in high winds, rain, snow, and extreme temperatures.

Screens and baffles are in place to keep the weather elements out, along with rodents and other animals, who can interfere with the operation of the generator.

Polar's All Weather Enclosure keeps the generator noise to a minimum. The noise level is dependent on the engine and power level selected. Using our electric radiator, the typical noise level for LPG and natural gas engines is 59 to 66 dBA and for diesel is 62 to 68 dBA, at 7 meters. (Please note that our sets can be as quiet as other companies claiming 55 to 60 dBA, as most manufacturers tend to exaggerate the noise performance of their generator.)

All aluminum construction is used for corrosion resistance and long service life. We used thick aluminum sheets of 2.3 mm (0.090") for strength.

Polar's light weight enclosure facilitates transportation to the site via small vehicle, helicopter, or multi-person carry.

The aluminum enclosure accepts Polar's electric radiator or the engine belt driven fan assembly. The electric radiator reduces fuel consumption by up to 15% and noise by up to 30%.

Features

- Forklift slots serve as helicopter/crane lifting points.
- The enclosure design is designed to retain spilled oil, fuel, and coolant as required at certain installation sites.
- The fuel tank is optional to our All Weather Enclosure. A 54 gal. fuel tank can be mounted under the enclosure. Customers have installed on site fuel tanks ranging from 20 to 1,000 gallons according to their site refueling requirements. Certain installations even prefer that the fuel tank is remote to the enclosure.
- Oil drain is accessible from the outside of the enclosure depending on engine style.
- The power terminal is accessible through the external junction box.
- Fuel connections are accessible through 1/4" NPT fittings.
- Dual Access: Operators can gain access to the DC generator either through the bolt-on side panels or the hinged top.



Corrosion Resistant



Sealed Electronics



No Starting Battery



Remote Monitoring



Quiet

Available Models

Part Number	Fuel	Output (kW)	Fuel tank size (gal.)
8220-100-D-6	Diesel	6	Remote, 54, 125, or custom
8220-100-D-10		10	
8220-100-D-12		12	
8340-100-D-15		15	
8220-100-LP-6	LPG	6	Customer provided
8220-100-LP-10		10	
8220-100-LP-12		12	
8340-100-LP-15		15	
8220-100-NG-6	Natural Gas	6	N/A
8220-100-NG-10		10	
8220-100-NG-12		12	
8340-100-NG-15		15	

All generators include:

- Industrial water cooled engine
- Polar Power 8000 series permanent magnet alternator
- Supercapacitor starting kit
- Polar Power Supra Digital Controller
- Automatic exerciser
- 2-year warranty

Options:

- SNMP alarm output
- Pull fuze block or circuit breaker on output
- Dry contact alarms

Note: All generators can be mounted on a trailer for mobile applications