

# SP-175

## Power When You Need It!



Sample Unit

### Generator Ratings\* @ 1800 RPM

Voltage	Ph	Hz	Standby Output kW (kVA)	Prime Output kW (kVA)	Standby Max Amp Output	Number of Wires
120/240	1	60	175 (175)	158 (158)	729	12
120/208	3	60	175 (219)	158 (198)	607	12
120/240	3	60	175 (219)	158 (198)	526	12
277/480	3	60	175 (219)	158 (198)	263	12

#### Standard Generator Set Features

- Perkins Diesel Engine Model 1106D-E66TAG4 Tier 3
- AC, Single bearing direct coupled alternator with class 'H' insulation, sized for 130°C temperature rise.
- Engine and alternator mounted on vibration isolators.
- Radiator sized for 120°F ambient clearance
- High coolant temp., low oil pressure safety shutdowns.
- Dry type air cleaner.
- 12-VDC starter, engine mounted battery charging alternator, battery cables and rack along with grounding strap.
- Microprocessor based control panel w/ metering, alarms, shut down, under / over frequency & voltage protection.



#### Optional Equipment

- Weather protective enclosure constructed of marine grade aluminum 0.125 thickness, SS hardware
- White powder coat paint finish on both sides
- Sound insulation resistant to high temperatures, fuel and oil. Hinged, removable, keyed alike doors.
- Residential rated interior mounted exhaust silencer
- Vertical radiator and exhaust discharge
- Oil & coolant drain lines with brass ball check valves
- Mainline circuit breaker.
- Digital or analog control panels.
- Automatic transfer switch
- Starting battery
- Automatic battery chargers 6 or 10 amps
- Thermostatically controlled jacket water heater
- Low coolant level switch
- Single wall tanks
- UL 142 fuel tanks
- Day tanks
- Water separator fuel filter
- Space heater
- Permanent Magnet Generator (PMG) with voltage regulator upgrade
- Generator drip covers
- 17 Light remote annunciator panel
- 120V Receptacle for battery charger and / or coolant heater.
- D.O.T trailer single or dual axle with brakes.
- Enviro - friendly custom color options.

\*Stand by ratings are applicable for the duration of any power outage. No overload is available at these ratings. Prime ratings are continuous per BS 5514, DIN 6271, ISO3046 & IEC 34-1. Overload capacity on prime-power ratings is 10% for one hour in each twelve hours of operation. All single phase ratings are based on a 1.0 power factor, three (3) phase ratings based on a 0.8 power factor. Ratings are established based on 85°F ( 29°C ) and an elevation of 1,000 feet ( 305 meters ). Please consult your **Stateline** representative for information concerning derates for temperature, altitude & humidity.

Manufactured by:

Stateline Power Corp • 650 Pine Street • Greenville, OH 45331 • 800-524-8344 [www.statelinepower.com](http://www.statelinepower.com)

# SP-175

## Power When You Need It!

### Engine Specifications

**Model: Perkins 1106D-E66TAG4 Tier 3**

Max power: 258 bhp / 193 kWm @ 1800 rpm  
Cubic capacity: 402.7 in<sup>3</sup> / 6.6 L  
Bore & stroke: 4.13" x 5" (105mm x 127mm)  
Turbocharged, air to air charge cooled, 6 cylinder in line  
direct injected, governor type-electronic ± 0.4%  
Frequency regulation: Isochronous, steady-state ± 0.25%  
Flywheel to SAE J620 size 11.5 / housing SAE 2

**Fluids:** Oil cap. total system - 17.4 quarts ( 16.5 liters )  
Coolant cap. w/ radiator - 5.5 gallons ( 21 liters )

**Fuel Consumption US gallon ( liters ) / hr @ 1800 rpm**

50% load - 6.87 ( 26 )  
75% load - 9.77 ( 37 )  
100% load - 12.9 ( 49 )

**General:** Oil filter-Spin-on type glow plugs  
Electrical system: 12v starter, 100amp alternator DC output  
Minimum recommended battery size: 1190 CCA  
**Fuel type:** BS 2869: Part 2 1998 Class A2 or BS EN590 or JP8

### Alternator Specifications

**Marathon Electric:** Type brushless, 4pole rotating field  
Voltage regulation: + / - 1%, volts/hertz, electronic, EMI filtered  
Class insulation: 'H' to NEMA MG-1-1.66  
Rated temperature: Standby 130 C° rise / 40 C° ambient  
Coupling: SAE adapter, flexible disc, direct.  
Load acceptance: One step, 100% per NFPA 110

**Features:** Self ventilated drip-proof construction. Superior voltage waveform achieved by a 2/3 pitch and skewed rotor. Vacuum-impregnated windings with fungus-resistant epoxy for dependability and long-life. Compliance with NEMA, IEEE and ANSI standards for temp. rise. Sustained short-circuit capability enabling down-line circuit breakers to trip without collapsing the generator field. No load to full-load regulation of +/- 2%.

### Control Panel Specifications

**DGC2020**

Microprocessor based, navigation key with large LCD display event recording transfer switch control SAE J1939 CANBUS communication multilingual capability suitable for rental application.  
Remote communication capability (optional)

**Operational features**

- Alternator protection: under / over voltage, under / over frequency.
- Engine protection: Low oil pressure, high coolant temperature, over speed & over crank, sender unit failure, fuel leak / fuel sender failure, battery charger failure.
- All protections are programmable as alarms or pre-alarms.

- Operating power: Nominal 12-24 Vdc consumption 14.2W run mode
- Metering (ample range): Volts, current, Hz watts, VA, Pf oil pressure, coolant temperature, rpm, DC volts, fuel level, engine running time.
- Engine control with timers
- External remote start input (on or off load)
- 16 programmable contact inputs.
- 7 Contact outputs

Agency Approvals: UL 508 R CSA C22.2 No 14 NFPA 110

CE Compliance: EC LVD-73/23/EEC EN 61000-6-4:2001 EMC EN 50178:1997 EMC- 89/336/EEC EN 610000 6-2:2001 EMC Immunity

**One complete set Owners / Operators, Engine, Alternator and Accessory manual**

### Dimensional and Mounting Specifications

inches (mm): 131.50 ( 3340 ) L x 44 ( 1118 ) W x 67 ( 1702 ) H (Enclosure only)  
Estimated Dry Weight lb. (kg): 3900 (1731) Less Fuel Tank

*Note:* The above dimensions and weights would change if a sub-base fuel tank was added. An electrical stub area is positioned at the rear of the sub-base fuel tanks. Spacing from rear access cover to the tank is approximately 9 inches (228.6 mm).

Specifications subject to change without notice



15749 Lyons Valley Rd.  
Jamul CA 91935  
www.HardyDiesel.com