

**EPA Certified / Stationary Emergency**

OUTPUT POWER OPTIONS					125°C RISE STANDBY RATING		105°C RISE CONTINUOUS RATING		sKVA
Make	Voltage	Alternator	Phase	Hertz	kW/kVA	Amps	kW/kVA	Amps	30% Voltage Dip
Marathon	600	432PSL6246	3	60	250/313	301	235/294	283	930
	277/480	432CSL6210	3	60	250/313	376	235/294	354	930
	120/208	432CSL6210	3	60	250/313	868	235/294	816	699
	120/240	432CSL6210	3	60	250/313	753	235/294	707	699
	120/240	432CSL6210	1	60	201/201	838	185/185	771	268
Marathon	277/480	433CSL6216	3	60	260/325	391	240/300	361	1424
	120/208	433CSL6216	3	60	260/325	903	240/300	834	1069
	120/240	433CSL6216	3	60	260/325	783	240/300	723	1069
	120/240	433CSL6216	1	60	230/230	958	220/220	917	450
Stamford	600	S4L1S-D4-17	3	60	250/313	301	235/294	283	850
	277/480	S4L1D-D41-311	3	60	250/313	376	235/294	354	980
	120/208	S4L1D-D41-311	3	60	250/313	868	235/294	816	735
	120/240	S4L1D-D41-311	3	60	250/313	753	235/294	707	735



**Engine Data**

Manufacturer	Perkins
Model	1506D-E88TAG3
Aspiration	Turbocharged
EPA Tier	3
Charge Air Cooling System	Air-to-Air
Arrangement	Vertical Inline, 4-Cycle
Firing Order	1-5-3-6-2-4
Displacement: L (in. <sup>3</sup> )	8.8 (537.01)
Bore: mm (in.)	112.00 (4.41)
Stroke: mm (in.)	149.00 (5.87)
Compression Ratio	16.1:1
BMEP: psi (kPa)	327.21 (2256.00)
Net Horsepower	369.84
Rated RPM	1800
Governor	Isochronous
Speed Regulation	±0.25%

**Engine Liquid Capacity**

Oil System: qt. (L)	43.32 (41.00)
Cooling System Capacity: gal (L)	11.94 (45.20)

**Engine Electrical**

Electric Volts: DC	24
Cold Cracking Amps	2200
Battery(s) Required	2

**Fuel System**

Fuel Injection Type	HEUI
Fuel Pump Rate: gal/hr (L/hr)	34.87 (132.00)
Pump Pressure: in. H <sub>2</sub> O (kPa)	1605.30 (400.00)
Max Suction Head: in. H <sub>2</sub> O (kPa)	244.41 (60.90)
Max Static Pressure Head: ft (m)	259.19 (79.00)
Recommended Fuel	Low Sulfur Diesel

**Air Requirements**

Air Filter(s) Type	Dry
Combustion Air Flow: CFM (m <sup>3</sup> /min)	889.93 (25.20)
Cooling Fan Air Flow: CFM (m <sup>3</sup> /min)	15,539 (440)
Duct Allowance: Pa	125
Maximum Air Intake Restriction	
Clean: in. H <sub>2</sub> O (kPa)	14.85 (3.70)
Dirty: in. H <sub>2</sub> O (kPa)	24.88 (6.20)

**Exhaust System**

Gas Temperature: °F (°C)	905.0 (485.0)
Gas Flow: CFM (m <sup>3</sup> /min)	2246.0 (63.6)
Max Exhaust Back Pressure: in. H <sub>2</sub> O (kPa)	40.13 (10.00)

**Sound Level**

Open Unit Without Exhaust: dBA 3.2 ft (1M)	100.5
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**Filters and Quantity**

Air Cleaner Quantity	1
Oil Filter(s) Quantity	1
Fuel Filter(s) Quantity	2

**Fuel Consumption - 125°C**

At 100% of Power Rating: gal/hr (L/hr)	19.55 (74.00)
At 75% of Power Rating: gal/hr (L/hr)	15.53 (58.80)
At 50% of Power Rating: gal/hr (L/hr)	11.12 (42.10)
At 25% of Power Rating: gal/hr (L/hr)	N/A

**Fuel Consumption - 105°C**

At 100% of Power Rating: gal/hr (L/hr)	18.20 (68.90)
At 75% of Power Rating: gal/hr (L/hr)	N/A
At 50% of Power Rating: gal/hr (L/hr)	N/A
At 25% of Power Rating: gal/hr (L/hr)	N/A

**Cooling System**

Rejection to Charge Cooler: kW (BTUM)	82.0 (4663.3)
Rejection to Coolant & Oil: kW (BTUM)	104.0 (5914.4)
Coolant Flow: gal/min (L/min)	50.2 (190.0)

**GENERAL GUIDELINES FOR DERATION:** Altitude: Derate 0.5% per 100m (328 ft.) Elevation above 1000m (3279 ft.) Temperature: Derate 1.0% per 10°C (18°F) temperature above 25°C (77°F)

**RATINGS:** All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.

**125° RATINGS:** 125° apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271.

**105° RATINGS:** 105° ratings apply to installations where utility power is unavailable or unreliable. At varying load the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS5514, AS2789, and DIN 6271. For limited running time and base load ratings consult the factory. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

## Alternator Data

Manufacturer	Marathon	
Type	PMG	
Insulation NEMA Rise/Temp	NEMA N/125°C	
Hertz	60	
Phase	3	
RPM	1800	
Leads	12	
Amortisseur Windings	Full	
CFM Cooling Required	1020	
Voltage Regulator	DVR2000E+	PM500
Sensing	Three Phase	Three Phase
Voltage Regulation	0.25%	0.25%

## Features

- NEMA MG1-32, BS5000, and IEC 34-1 compliant; CE & CSA Certified and UL Listed
- Self-ventilated and drip proof construction
- Two-thirds pitch stator and skewed rotor
- Wet wound, epoxied field windings
- Designed to withstand overspeeds of up to 125%
- Hybrid analog/digital voltage regulator
- Under frequency protection
- Under frequency indication light
- Less than one cycle response time
- Over excitation protection
- Over excitation indication light
- Easy access front-panel adjustments
- Over voltage protection shutdown
- Analog input for paralleling

## Alternator Data

Manufacturer	Stamford	
Type	PMG	
Insulation NEMA Rise/Temp	NEMA H/125°C	
Hertz	60	
Phase	3	
RPM	1800	
Leads	12	
Amortisseur Windings	Full	
CFM Cooling Required	2100	
Voltage Regulator	MX341	MX321
Sensing	Single Phase	Three Phase
Voltage Regulation	1.0%	0.50%

## Features

- BS EN 60034, BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, and AS1359 complaint
- IP23 enclosure
- Dynamically balanced to exceed BS6861:Part 1 Grade 2.5 vibration standard
- Quality assurance to BS EN ISO 9001
- Self-ventilated and
- Drip proof construction
- Two-thirds pitch stator and skewed rotor
- Heavy duty bearings
- Fully guarded
- Overexcitation protection
- Under frequency protection
- Analog input
- Overvoltage protection
- Paralleling compatible



## DGC2020 Digital Controller

- Integrated engine-genset control, protection, and metering
- Microprocessor allows for exact measurement, setpoint adjustment, and timing functions
- Front panel 3 position controls and indicators enable quick and simple operation
- Emergency stop push button and an Alarm Horn with silence button
- A wide temperature-range liquid crystal display (LCD) with backlighting
- SAE J1939 Engine ECU communications
- Remote RS-485 communications for Optional RDP-110 Remote Annunciator
- 4 programmable contact inputs and 10 contact outputs (2 ADC rated)
- Modbus Communications with RS-485, Battery Backup for Real Time Clock, UL recognized, CSA certified, CE approved, HALT (Highly Accelerated Life Tests) tested
- IP 54 Front Panel rating with integrated gasket and NFPA 110 Level 1 Compatible.
- Manual Override Keyswitch



## Analog Controller with Emergency Bypass Key Switch

- Automatic CANBUS Engine Control
- Oil Pressure, Water Temperature, Battery Voltage and RPM Gauges
- Automatic Gauge Zeroing on Shutdown
- AC Voltage, Frequency, Percent of Load, and Run-Time Metering
- 3-Position Auto-Off-Manual Control Switch
- LED Status Lights: Low Oil Pressure, High Temperature, Overcrank, Overspeed, & Engine Start



**Standard Features:**

**Warranty**

2 Year Standard
5 Year Comprehensive

- Heavy Duty Steel Base
- Vibration Isolators
- Oil Drain Valve with Extension
- Battery Rack & Cables
- High Ambient Unit Mounted Radiator
- Battery Charging Alternator
- Factory Powder Coating
- Factory Test
- Owner's Manual

**Controller Options**

DGC-2020HD Controller
Fiber Optic Ethernet (DGC-2020HD)
RS-232 Port & Generator Protection (DGC-2020)
Flush or Surface Mount Remote Annunciator
Remote Mount Break Glass E-Stop Switch

**Miscellaneous Options:**

- Battery Charger
- Coolant Drain Kit
- Block Heater
- Line Circuit Breaker
- Pad Type Battery Heater
- Battery Heater Blanket w/Thermostat
- Oil Pan Heater
- Generator Strip Heater

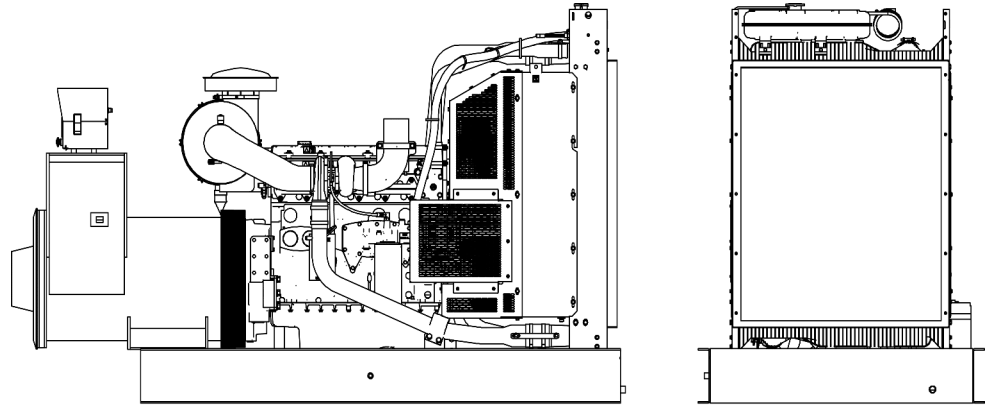
**Open Unit**

**Options:**

- Radiator Duct Flange
- Flex Exhaust
- Critical Silencer
- Sub-Base Fuel Tank

OVERALL SIZE: 122"L x 57"W x 73"H  
 Approximate Weight: 6,500 lbs.

*Note: Dimensions and weights reflect standard open unit with no options and are subject to change.*



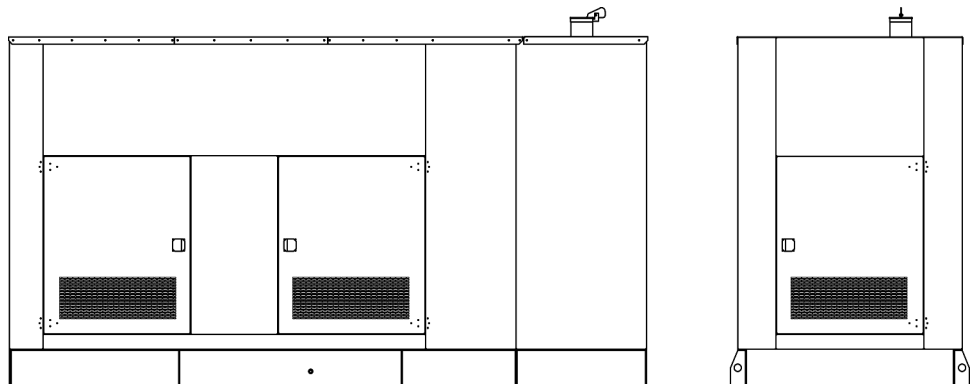
**Standard Enclosed Unit**

**Options:**

- Sound Attenuated Enclosure
- Load Center, Lights & GFI Receptacle
- Sub-Base Fuel Tank

OVERALL SIZE: 162"L x 66"W x 94"H  
 Approximate Weight: 8,800 lbs.

*Note: Dimensions and weights reflect standard enclosed unit with no options and are subject to change.*



**Note: The above drawings are provided for reference only and should not be used for planning installation.**

**Contact your local distributor for more information.**