

TG250W



EPA Certified / Stationary Emergency

OUTPUT POWER OPTIONS					Natural Gas STANDBY RATING		LP Vapor STANDBY RATING		sKVA
Make	Voltage	Alternator	Phase	Hertz	kW/kVA	Amps	kW/kVA	Amps	30% Voltage Dip
Stamford	600	S4L1S-D4-17	3	60	250/213	301	150/188	181	850
	277/480	S4L1D-D41-311	3	60	250/313	376	150/188	226	980
	120/208	S4L1D-D41-311	3	60	250/313	868	150/188	521	755
	120/240	S4L1D-D41-311	3	60	250/313	753	150/188	452	755
Marathon	600	432PSL6246	3	60	250/313	301	150/188	181	930
	277/480	432PSL6210	3	60	250/313	376	150/188	226	930
	120/208	432PSL6210	3	60	250/313	868	150/188	521	699
	120/240	432PSL6210	3	60	250/313	753	150/188	452	699
	120/240	432PSL6210	1	60	201/201	838	150/150	625	267
Marathon	277/480	433PSL6216	3	60	250/313	376	150/188	226	1424
	120/208	433PSL6216	3	60	250/313	868	150/188	521	1069
	120/240	433PSL6216	3	60	250/313	753	150/188	452	1069
	120/240	433PSL6216	1	60	241/241	1004	150/150	625	430

**Engine Data**

Manufacturer	PSI	
Model	12.5L	
Aspiration	Turbocharged	
Arrangement	Inline, 4-Cycle	
Firing Order	1-5-3-6-2-4	
Displacement: L (in. ³)	12.54 (765.24)	
Bore: mm (in.)	127.00 (5.00)	
Stroke: mm (in.)	165.00 (6.50)	
Compression Ratio	9.75:1	
Gross Horsepower: Natural Gas	401.3	
LP Vapor	242.0	
BMEP: psi (kPa)	Natural Gas	234.30 (1615.44)
	LP Vapor	140.50 (968.71)
Rated RPM	1800	
Governor	Isochronous	
Speed Regulation	±0.50%	

Engine Liquid Capacity

Oil System: qt. (L)	31.7 (30.0)
Cooling Capacity: gal (L)	20.1 (76.0)

Engine Electrical

Electric Volts: DC	24
Cold Cranking Amps	1100
Battery(s) Required	2

Fuel System

Fuel Supply Size:	Natural Gas	2.00" NPT
	LP Vapor	2.00" NPT
Supply Pressure: in. H ₂ O (kPa)	7-11 (1.74-2.74)	

Air Requirements

Air Filter(s) Type	Dry
Combustion Air Flow: CFM (m ³ /min)	527.6 (14.94)
Maximum Air Intake Restriction	
Clean: in. H ₂ O (kPa)	12.0 (3.0)
Dirty: in. H ₂ O (kPa)	24.9 (6.2)

Exhaust System

Gas Temperature: °F (°C)	1594.4 (843.0)
Gas Flow: lb/hr (kg/hr)	2700.7 (1226.1)
Max Back Pressure: in. H ₂ O (kPa)	60.22 (15)

Filters and Quantity

Air Cleaner Quantity	1
Oil Filter(s) Quantity	1

Fuel Consumption - Natural Gas

At 100% of Power Rating: CFH (m ³ /hr)	3416.30 (96.74)
At 75% of Power Rating: CFH (m ³ /hr)	N/A
At 50% of Power Rating: CFH (m ³ /hr)	N/A
At 25% of Power Rating: CFH (m ³ /hr)	N/A

Fuel Consumption - LP Vapor

At 100% of Power Rating: CFH (m ³ /hr)	2433.20 (68.90)
At 75% of Power Rating: CFH (m ³ /hr)	N/A
At 50% of Power Rating: CFH (m ³ /hr)	N/A
At 25% of Power Rating: CFH (m ³ /hr)	N/A

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. 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	Stamford	
Type	PMG	
Insulation Class	NEMA H	
Temperature Rise	125°C Standby	
Hertz	60	
RPM	1800	
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

Alternator Data

Manufacturer	Marathon	
Type	PMG	
Insulation Class	NEMA N	
Temperature Rise	125°C Standby	
Hertz	60	
RPM	1800	
Amortisseur Windings	Full	
CFM Cooling Required	1020	
Voltage Regulator	DVR2400	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

Control Panels



DeepSea 7310 MKII

Simultaneous Use of RS232 & RS485
Modbus RTU Support
Fully Configurable Using USB, RS232 & RS485
IP65 Rating
6 Programmable Inputs & 8 Outputs
UL & cUL Listed and CE Certified



Basler DGC2020

SAE J1939 Engine ECU Communications
4 Programmable Inputs & 10 Outputs
Modbus Communications With RS485
UL Recognized, CSA & CE Certified
IP 54 Front Panel Rating
NFPA 110 Level 1 Compatible
Manual Override Keyswitch
DGC2020HD Variant Available



Taylor Analog

Automatic CANBUS Engine Control
Gauge Zeroing on Shutdown
Auto-Off-Manual Control Switch
Oil Pressure, Water Temperature, Battery Voltage and RPM Gauges
AC Voltage, Frequency, Percent of Load, and Run-Time Metering
LED Status Lights



Standard Features:

Warranty

2 Year Standard

5 Year Comprehensive

Heavy Duty Steel Base

Vibration Isolators

Oil Drain Valve with Extension

Coolant Drain Kit

High Ambient Unit Mounted Radiator

Battery Charger

Block Heater

Factory Powder Coating

Factory Load Test

Owner's Manual

Controller Options

DGC2020HD Controller

Fiber Optic Ethernet (DGC2020HD)

RS-232 Port & Generator Protection (DGC2020)

Flush or Surface Mount Remote Annunciator

Remote Mount Break Glass E-Stop Switch

Miscellaneous Options:

Generator Strip Heater

Spring Isolators

Line Circuit Breaker

Pad Type Battery Heater

Battery Heater Blanket

Oil Pan Heater

Open Unit

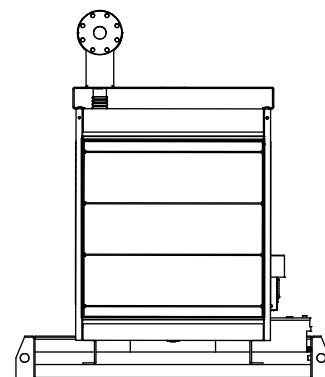
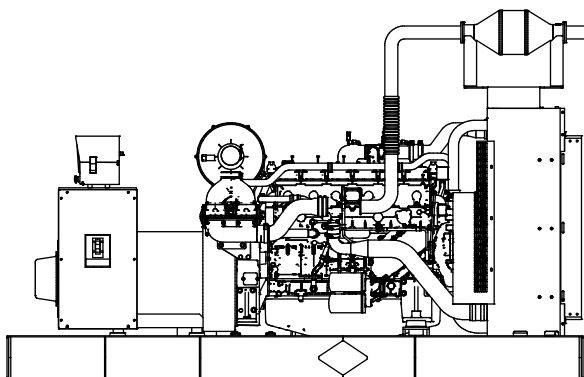
Options:

- Radiator Duct Flange
- Flex Exhaust
- Critical Silencer

Overall Size: 132"L x 72"W x 85"H

Approximate Weight: 6,600 lbs.

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



Standard Enclosed Unit

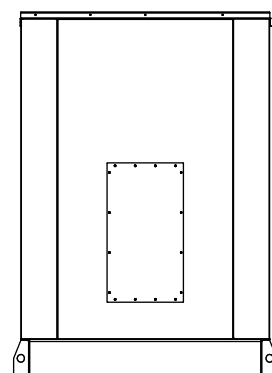
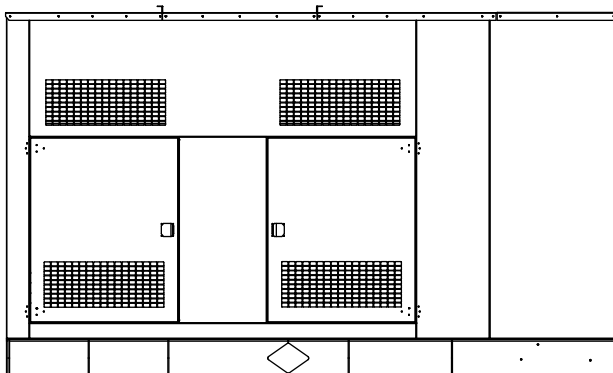
Options:

- Sound Attenuated Enclosure
- Load Center, Lights & GFI Receptacle

Overall Size: 168"L x 72"W x 96"H

Approximate Weight: 8,000 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.**