TG80

TAYLOR POWER SYSTEMS

EPA Certified / Stationary Emergency

OUTPUT POWER OPTIONS					Natural Gas STANDBY RATING		sKVA
Make	Voltage	Alternator	Phase	Hertz	kW/kVA	Amps	30% Voltage Dip
Stamford	600	UCI274C17	3	60	80/100	96	445
	277/480	UCI274C311	3	60	80/100	120	419
	120/208	UCI274C311	3	60	80/100	278	350
	120/240	UCI274C311	3	60	80/100	241	350
	120/240	UCI274C311	1	60	68/68	283	223
	120/240	UCI274C06	1	60	80/80	333	263
Marathon	600	362PSL1635	3	60	80/100	96	317
	277/480	362CSL1604	3	60	80/100	120	317
	120/208	362CSL1604	3	60	80/100	278	238
	120/240	362CSL1604	3	60	80/100	241	238
	120/240	362CSL1604	1	60	66/66	275	128
	120/240	363CSL1617	1	60	80/80	333	310
Marathon	277/480	362CSL1606	3	60	80/100	120	378
	120/208	362CSL1606	3	60	80/100	278	284
	120/240	362CSL1606	3	60	80/100	241	284
	120/240	362CSL1606	1	60	79/79	329	127

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Engine Data

Manufacturer	PSI
Model	5.7L
Aspiration	Turbocharged
Arrangement	V-8, 4-Cycle
Firing Order	1-8-4-3-6-5-7-2
Displacement: L (in.³)	5.7 (350.0)
Bore: mm (in.)	101.60 (4.00)
Stroke: mm (in.)	88.4 (3.48)
Compression Ratio	9.1:1
Gross Horsepower	124.07
Rated RPM	1800
Governor	Isochronous
Speed Regulation	±0.50%

Engine Liquid Capacity

Oil System: qt. (L)	5.0 (4.7)
Cooling Capacity: gal (L)	2.1 (7.8)

Engine Electrical

Electric Volts: DC	12
Cold Cranking Amps	650
Battery(s) Required	1

Fuel System

Fuel Supply Size	1.25” NPT
Supply Pressure: in. H_2O (kPa)	7-11 (1.74-2.74)

Air Requirements

Air Filter(s) Type	Dry
Combustion Air Flow: CFM (m³/min)	243.7 (6.9)
Maximum Air Intake Restriction	
Clean: in. H_2O (kPa)	3.00 (1.49)
Dirty: in. H_2O (kPa)	13.00 (3.24)
Radiator Air Flow: CFM (m³/min)	5,500 (156)

Exhaust System

Gas Temperature: °F (°C)	1200 (649)
Gas Flow: CFM (m³/min)	786.9 (22.3)
Max Back Pressure: in. H_2O (kPa)	40.9 (10.2)
Exhaust Outlet Size: in. (mm)	4.0 (101.6)

Filters and Quantity

Air Cleaner Quantity	1
Oil Filter(s) Quantity	1

Fuel Consumption - Natural Gas

At 100% of Power Rating: CFH (m³/hr)	1185 (33.6)
At 75% of Power Rating: CFH (m³/hr)	981 (27.8)
At 50% of Power Rating: CFH (m³/hr)	777 (22.0)
At 25% of Power Rating: CFH (m³/hr)	573 (16.2)

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 and controller data

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	1308	
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	700	
Voltage Regulator	DVR2400	PM500
Sensing	Three Phase	Three Phase
Voltage Regulation	0.25%	0.25%

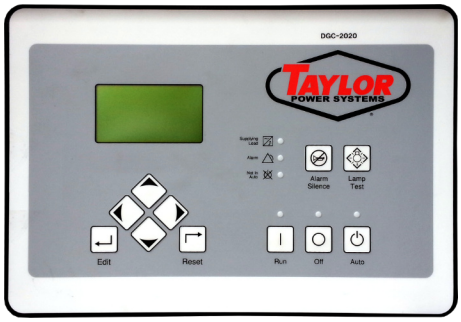
Features

- 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 and options

Warranty

2 Year Standard
5 Year Comprehensive

Standard Features:

Heavy Duty Steel Base	Battery Charger
Vibration Isolators	Block Heater
Oil Drain Valve with Extension	Factory Powder Coating
Coolant Drain Kit	Factory Load Test
High Ambient Unit Mounted Radiator	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:

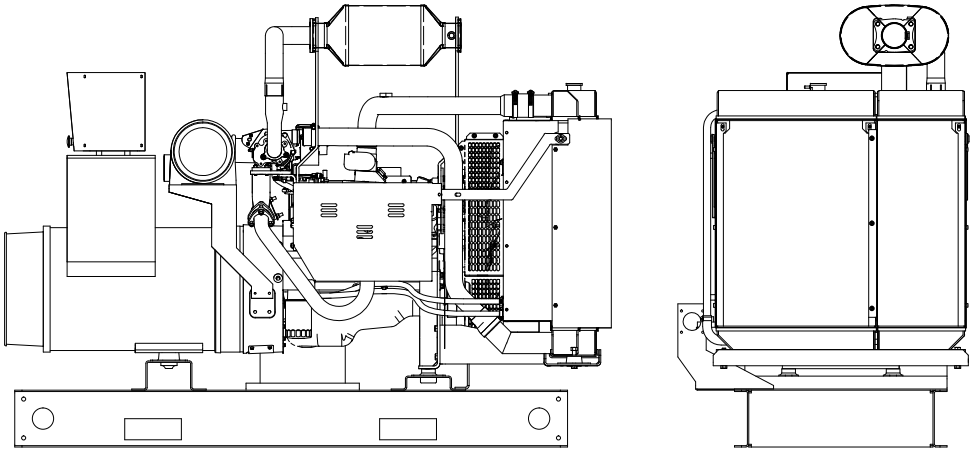
Generator Strip Heater	Pad Type Battery Heater
Spring Isolators	Battery Heater Blanket
Line Circuit Breaker	Oil Pan Heater

Open Unit

Options:
- Radiator Duct Flange
- Flex Exhaust
- Critical Silencer

Overall Size: 78"L x 36"W x 50"H
Approximate Weight: 2,000 lbs.

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

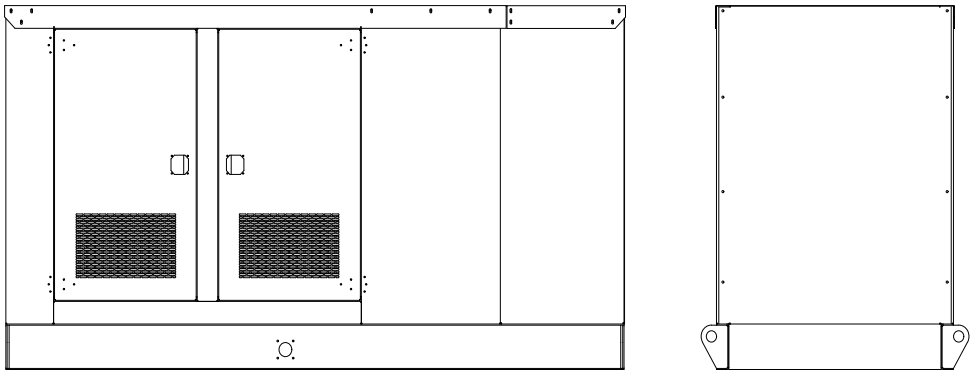


Standard Enclosed Unit

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

Overall Size: 120"L x 52"W x 64"H
Approximate Weight: 3,700 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.