TG30

TAYLOR POWER SYSTEMS

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	S1L2-J1-17	3	60	30/38	36	30/38	36	165
	277/480	S1L2-K1-311	3	60	30/38	45	30/38	45	102
	120/208	S1L2-K1-311	3	60	30/38	104	30/38	104	67
	120/240	S1L2-K1-311	3	60	30/38	90	30/38	90	67
	120/240	S1L2-K1-311	1	60	29/29	120	29/29	120	55
	120/240	S1L2-H1-06	1	60	30/30	125	30/30	125	38
Marathon	600	283PSL5251	3	60	30/38	36	30/38	36	132
	277/480	283CSL1507	3	60	30/38	45	30/38	45	90
	120/208	283CSL1507	3	60	30/38	104	30/38	104	70
	120/240	283CSL1507	3	60	30/38	90	30/38	90	70
	120/240	283CSL1507	1	60	25/25	104	25/25	104	43
	120/240	283PSL1718	1	60	30/38	125	30/38	125	85
Marathon	277/480	283PSL1707	3	60	30/38	45	30/38	45	135
	120/208	283PSL1707	3	60	30/38	104	30/38	104	102
	120/240	283PSL1707	3	60	30/38	90	30/38	90	102
	120/240	283PSL1707	1	60	25/25	104	25/25	104	41

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Engine Data

Manufacturer	PSI
Model	3.0L
Aspiration	Natural Aspiration
Arrangement	Vertical Inline, 4-Cycle
Firing Order	1-3-4-2
Displacement: L (in.³)	3.0 (181.0)
Bore: mm (in.)	101.60 (4.00)
Stroke: mm (in.)	91.4 (3.60)
Compression Ratio	10.5:1
Gross Horsepower: Natural Gas	50.8
LP Vapor	51.5
Rated RPM	1800
Governor	Isochronous
Speed Regulation	±0.50%

Engine Liquid Capacity

Oil System: qt. (L)	4.00 (3.78)
Cooling Capacity: gal (L)	0.99 (3.78)

Engine Electrical

Electric Volts: DC	12
Cold Cranking Amps	565
Battery(s) Required	1

Fuel System

Fuel Supply Size:	Natural Gas	0.75” NPT
	LP Vapor	0.75” 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)	77.20 (2.19)
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)	5,000 (142)

Exhaust System

Gas Temperature: °F (°C)	1270 (688)
Gas Flow: CFM (m³/min)	249.40 (7.06)
Max Back Pressure: in. H_2O (kPa)	40.9 (10.2)
Exhaust Outlet Size: in. (mm)	2.5 (64.0)

Filters and Quantity

Air Cleaner Quantity	1
Oil Filter(s) Quantity	1

Fuel Consumption - Natural Gas

At 100% of Power Rating: CFH (m³/hr)	430 (12.2)
At 75% of Power Rating: CFH (m³/hr)	340 (9.6)
At 50% of Power Rating: CFH (m³/hr)	255 (7.2)
At 25% of Power Rating: CFH (m³/hr)	179 (5.1)

Fuel Consumption - LP Vapor

At 100% of Power Rating: CFH (m³/hr)	175 (5.0)
At 75% of Power Rating: CFH (m³/hr)	144 (4.1)
At 50% of Power Rating: CFH (m³/hr)	108 (3.1)
At 25% of Power Rating: CFH (m³/hr)	74 (2.1)

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	Self-Excited
Insulation Class	NEMA H
Temperature Rise	125°C Standby
Hertz	60
RPM	1800
Amortisseur Windings	Full
CFM Cooling Required	449
Voltage Regulator	AS540
Sensing	Single Phase
Voltage Regulation	1.0%

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
- Overload protection
- Paralleling compatible
- Single-phase sensing

Alternator Data

Manufacturer	Marathon
Type	Self-Excited
Insulation Class	NEMA N
Temperature Rise	125°C Standby
Hertz	60
RPM	1800
Amortisseur Windings	Full
CFM Cooling Required	340
Voltage Regulator	SE350
Sensing	Single Phase
Voltage Regulation	1.0%

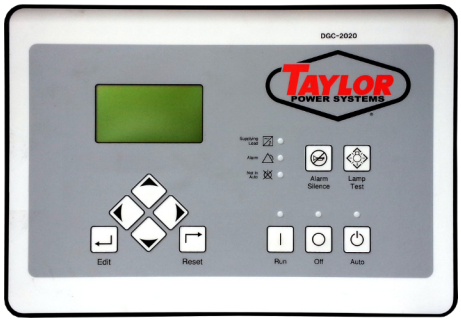
Features

- 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%
- Analog voltage regulator
- Easy access front-panel adjustments
- Under-frequency, stability and voltage adjustments
- Internal provisions for automatic voltage build up from generator residual voltage
- Electromagnetic interference filter

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
- 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:

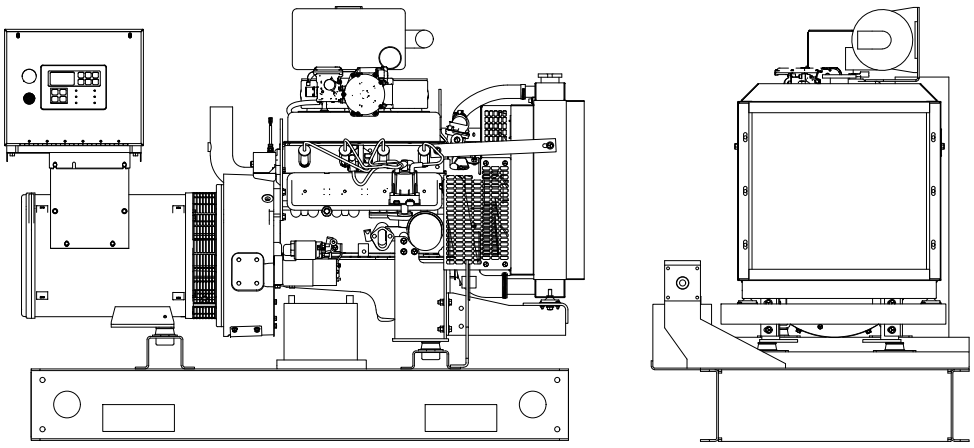
- Generator Strip Heater
- Spring Isolators
- Line Circuit Breaker
- Pad Type Battery Heater
- Battery Heater Blanket
- Oil Pan Heater

Open Unit

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

Overall Size: 67"L x 36"W x 49"H
Approximate Weight: xxxx lbs.

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

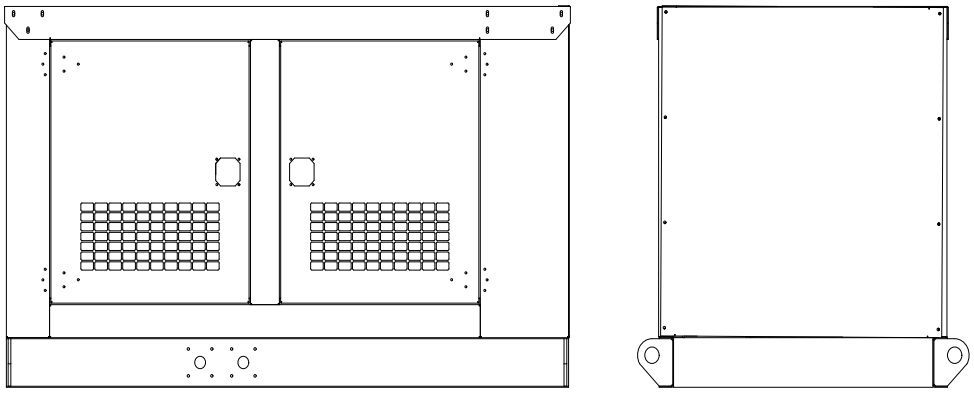


Standard Enclosed Unit

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

Overall Size: 78"L x 46"W x 46"H
Approximate Weight: 1,500 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.