

TG800



EPA Certified / Stationary Emergency

OUTPUT POWER OPTIONS					Natural Gas STANDBY RATING		sKVA
Make	Voltage	Alternator	Phase	Hertz	kW/kVA	Amps	30% Voltage Dip
Marathon	600	574RSS4278	3	60	800/1000	963	3100
	277/480	574RSL6437	3	60	800/1000	1204	3400
	120/208	574RSL6437	3	60	770/963	2675	2550
	120/240	574RSL6437	3	60	770/963	2318	2550



Engine Data

Manufacturer	PSI
Model	39.2L
Aspiration	Turbocharged
Arrangement	V-12, 4-Cycle
Firing Order	1-8-5-10-3-7-6-11-2-9-4-12
Displacement: L (in. ³)	39.2 (2392.1)
Bore: mm (in.)	150.00 (5.91)
Stroke: mm (in.)	185.00 (7.28)
Compression Ratio	10.5:1
Gross Horsepower	1234
BMEP: psi (kPa)	227 (1565)
Rated RPM	1800
Governor	Isochronous
Speed Regulation	±0.50%

Engine Liquid Capacity

Oil System: qt. (L)	154 (146)
Cooling Capacity: gal (L)	43.4 (164.1)

Engine Electrical

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

Fuel System

Fuel Supply Size	(2) 3.00" NPT
Supply Pressure: in. H ₂ O (kPa)	20-30 (4.98-7.47)

Air Requirements

Air Filter(s) Type	Dry
Combustion Air Flow: CFM (m ³ /min)	1591 (45)
Maximum Air Intake Restriction	
Clean: in. H ₂ O (kPa)	5.2 (1.3)
Dirty: in. H ₂ O (kPa)	15.00 (3.74)
Radiator Air Flow: CFM (m ³ /min)	52,000 (1472)

Exhaust System

Gas Temperature: °F (°C)	1238 (670)
Gas Flow: CFM (m ³ /min)	4920 (139)
Max Back Pressure: in. H ₂ O (kPa)	51.71 (12.87)

Filters and Quantity

Air Cleaner Quantity	2
Oil Filter(s) Quantity	1

Fuel Consumption

At 100% of Power Rating: CFH (m ³ /hr)	10109 (286)
At 75% of Power Rating: CFH (m ³ /hr)	7503 (212)
At 50% of Power Rating: CFH (m ³ /hr)	5410 (153)
At 25% of Power Rating: CFH (m ³ /hr)	3468 (98)

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	Marathon	
Type	PMG	
Insulation Class	NEMA N	
Temperature Rise	125°C Standby	
Hertz	60	
RPM	1800	
Amortisseur Windings	Full	
CFM Cooling Required	1340	
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 | 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

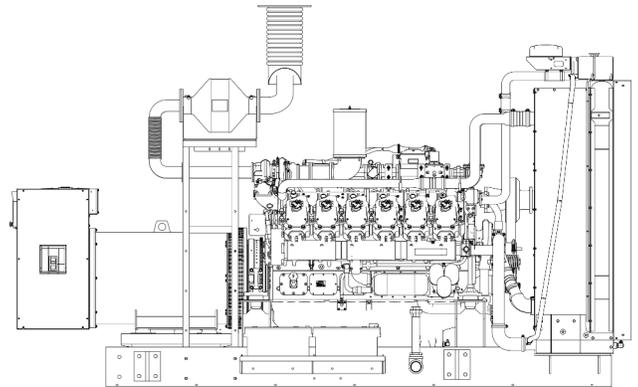
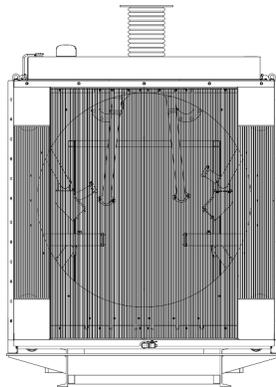
Miscellaneous Options:

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

Open Unit

Options:

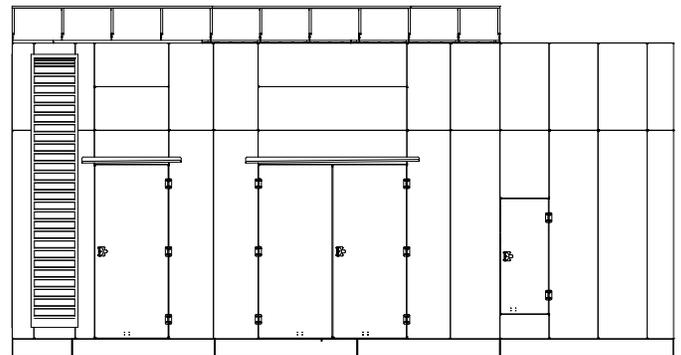
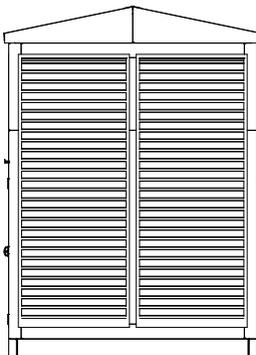
- Radiator Duct Flange
- Flex Exhaust
- Critical Silencer



Standard Enclosed Unit

Options:

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



Note: The above drawings are provided for reference only and should not be used for planning installation. Contact your local distributor for more information.