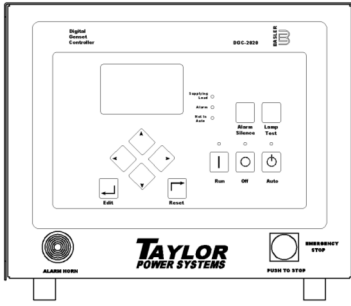


Application and Engineering Data

Basic Technical Data		Lubrication System	
Manufacturer	Doosan	Type	Full Pressure
Model	D111TIC	Oil pan capacity	26.4 qt (25 L)
Number of cylinders	6	Oil pan capacity with filter	28.8 qt (27 L)
Cylinder arrangement	Vertical in-line	Oil filter: qty and type	1, Cartridge
Cycle	4	Electrical System	
Induction system	Turbocharged, Aftercooled	Ignition system	
Compression ratio	10.5.:1	Battery charging alternator:	
Bore	4.84 in (123 mm)	Ground	negative
Stroke	6.10 in (155 mm)	Volts	24
Cubic capacity	674 cu in (11.05 L)	Ampere rating	45
Piston speed	1831 ft/min (558 m/min)	Starter motor rated voltage	24
Main bearings: qty and type	7, Precision Half-Shell	Battery, recommended cold cranking amps (CCA):	
Governor type	Electronic	Qty rating for -18 °C (0 °F)	Two, 1000
Rated rpm	1800	Battery voltage	12
Max power at rated rpm	302 hp (225 kW)	Operation Requirements	
Engine power at Standby rating	302 (225)	Radiator-cooled cooling air	18,000 scfm (510 m ³ /min)
Frequency regulation, -load to full-load	no Isochronous	Combustion air	390 cfm (12.6 m ³ /min)
Frequency regulation, steady state	± 0.5%	Heat rejected to ambient air:	
Frequency	Fixed	Engine	3430 Btu/min (60.3 kW)
Air cleaner type	Dry	Alternator	910 Btu/min (16.0 kW)
Exhaust System		Fuel System	
Exhaust manifold type	Wet	Fuel Type	LP Gas, Natural Gas or Dual Fuel
Exhaust flow at rated kW	1121 cfm	Fuel Consumption	
Exhaust temperature at rated kW	1112 °F (600 °C)	Natural Gas	
Maximum allowable back pressure	3.0 in (10.2 kPa)	100% Load	2115 cfh (59.9 m ³ /hr)
Exhaust outlet size at engine hookup	N/A	75% Load	1649 cfh (46.7 m ³ /hr)
Cooling System		50% Load	1158 cfh (32.8 m ³ /hr)
Ambient temperature	122 °F (50 °C)	25% Load	706 cfh (20.0 m ³ /hr)
Engine jacket water capacity	5.5 gal (21 L)	LP Gas	
Radiator system capacity, including engine	30.6 gal (116 L)	100% Load	703 cfh (19.9 m ³ /hr)
Engine jacket water flow	75 gpm (284 Lpm)	75% Load	600 cfh (17.0 m ³ /hr)
Heat rejected to cooling water at rated	8100 Btu/min (142.3 kW)	50% Load	406 cfh (11.5 m ³ /hr)
Max restriction of cooling air, intake and discharge side of radiator	0.5 H ₂ O (0.125 kPa)	25% Load	254 cfh (7.2 m ³ /hr)

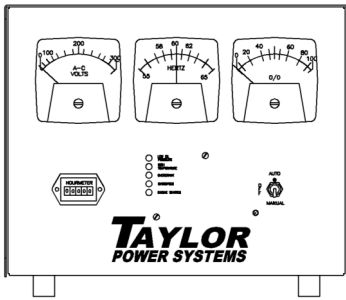


Generator Controller Options



Digital Control Panel

- 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
- Multilingual capability
- Remote RS-485 communications for Optional RDP-110 Remote Annunciator
- 4 programmable contact inputs and 10 contact outputs (2 A/c 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.



Analog Controller

- Monitor AC voltage, AC frequency, percent of load and, run time/hour meter
- Overspeed, overcrank, low oil pressure, and high coolant temperature indicators
- Green LED indication of engine running
- Control switch for local and remote starting with 3 position run/off/remote switch
- Emergency by-pass key switch gauge
- Mechanical oil pressure gauge
- Coolant temperature gauge

Alternator Specifications

Manufacturer	Marathon	<ul style="list-style-type: none"> • NEMA MG1, IEEE, AND ANSI standards compliance for temperature and motor starting. • Sustained short-circuit current of the rated current for up to 10 seconds. • Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator • Self-ventilated and dripproof construction. • Superior voltage waveform from a two-thirds pitch stator and skewed rotor. • Linkboards • Optimized Electrical Design • Enhanced Ventilation • Fully Guarded • Heavy Duty Bearings
Type	Ext. Voltage Regulated, Brushless	
Gen Frame	MAGNAPLUS	
Insulation	NEMA	
Material	Class H	
Temperature Rise	130 °C, Standby	
Hertz	60	
Phase	3	
RPM	1800	
Exciter	Rotating	
# Leads	12 Reconnectable or 4 Single Phase	
PF	0.8	
Ambient	40°C	
Coupling Single Bearing	Flexible	
Amortisseur Windings	Full	
Cooling Air Volume	1280 CFM	
Peak Motor Starting	30% Voltage Dip, 664 skVA @ 480V	
Voltage Regulation	1 Phase Sensing 1%	
no-load and full-load	Optional 3 Phase Sensing 1/2%	



STANDARD FEATURES

- Heavy Duty Steel Base
- Vibration Isolators
- Oil Drain Valve with Extension
- Battery Rack
- Battery Cables
- High Ambient Unit Mounted Radiator
- Battery Charging Alternator
- Factory Paint
- Factory Test Prior to Shipment
- 2 Year Warranty
- Owners Manual

AVAILABLE ACCESSORIES

OPEN UNIT

- Narrow Skid Base
- Radiator Duct Flange
- Ship Loose Flex Exhaust
- Ship Loose Critical Silencer

ENCLOSED UNIT

- Wide Skid Base
- Standard Enclosure With Internal Silencer
- Sound Attenuated Enclosure With Silencer
- Load Center With Lights and GFI Receptacle

CONTROLLER

- DGC2020 Control Panel
- DGC2020 Control Panel with Modem
- DGC2020 with Generator Protection
- DGC2020 with Modem and Generator Protection
- Flush or Surface Mount Remote Annunciator
- Remote Mount Break Glass E-Stop Switch
- Analog Control Panel

MISCELLANEOUS

- Flexible Fuel Lines
- Coolant Drain Kit
- Water Jacket Heater
- Oil Pan Heater
- Generator Strip Heater
- Battery
- Battery Charger
- Pad Type Battery Heater
- Battery Heater Blanket with Thermostat
- Line Circuit Breaker
- Dual Fuel

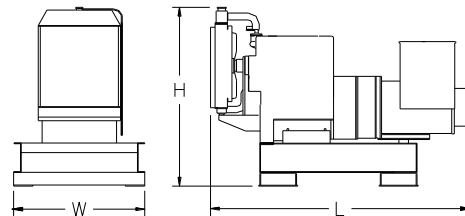
WARRANTY

- 3 Year Warranty
- 5 Year Warranty

WEIGHTS AND DIMENSIONS

OVERALL SIZE, L x W x H, in.: 120 in x 66 in x 80 in
WEIGHT: 5395 lbs.

Note: Dim and weights reflect standard open unit with no options



Note: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

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