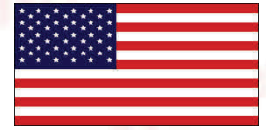




Generator Joe®



Made in the USA!



Shown with optional equipment

Centurion "P" Series Model: 275 CP & CP3

Ratings Diesel

Single and/or Three Phase Available

		60 Hz	50 Hz
Standby:	kW	275.0	228.2
	kVA	243.0	285.2
Prime:	kW	245.0	205.3
	kVA	306.0	281.3

Features

- Single source responsibility for the generator set and accessories.
- Prototype and production tested to insure one step load acceptance per NFPA 110.
- Five year limited warranty on generator sets and accessories.
- Unit conforms to CSA, NEMA, EGSA, ANSI and other standards.
- Heavy duty 4 cycle industrial engine for reliability and fuel efficiency.
- Brushless rotating field generator with class H insulation.
- Heavy duty steel base with integral vibration isolators.
- Electronic Isochronous Governor.
- Cooling system designed for ambients up to 50°C (122°F)
- EPA Emissions Certified
- UL 2200 Available

Voltage L-N / L-L	Phase	Hz	130° Rise Standby Rating		105° Rise Prime Rating	
			kW / kVA	Amps	kW / kVA	Amps
277/480	3	60	280/350	421	260/325	391
139/240	3	60	280/350	842	260/325	782
127/220	3	60	283/354	928	261/326	856
240/416	3	60	280/350	486	260/325	451
120/208	3	60	280/350	972	260/325	902
120/240	3	60	280/350	842	260/325	782
220/380	3	60	265/331	521	245/306	465
120/240	1	60	201/185	484	201/201	484



RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.

STANDBY RATINGS: Standby ratings 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.

PRIME POWER RATINGS: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS5514, AS2789, 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.

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 40°C (104°F).

Engine Application Data

Basic Technical Data

Manufacturer MTU
Model 6R1600G70S
Number of cylinders 6

Cylinder arrangement Vertical in-line
Cycle Four stroke
Induction system N/A

Compression ratio 17.5:1
Bore 4.8 in (12.2 cm)
Stroke 5.91 in (15 cm)
Cubic capacity 641 cu in (10.5 L)
Direction of rotation N/A

Firing order
Governor type ECU, Isochronous 0.25%
Gross engine power 418 bhp (312 kWm)
Electropak net engine power N/A

Brake mean effective pressure N/A

Cooling fan air flow (29 psi (200 kPa) external restriction) 654 m³/min
Combustion air flow (at rated speed) 1059 scfm (30 m³/min)
Exhaust gas flow (max) 2542.7 cfm (72 m³/min)
Exhaust gas mass flow (max)
Exhaust gas temperature in manifold (max) 806° F (430° C)
Boost pressure ratio N/A
Overall thermal efficiency (net) N/A

Cooling System

Coolant
Total System Capacity 21.7 gal (82 L)
With radiator
Without radiator 11.9 gal (45 L)
Engine coolant flow 73.1 gpm (277 Lpm)
Maximum top tank temperature
Temperature rise across engine (rating dependent)
Thermostat operation range
Recommended coolant:

Exhaust System

Maximum back pressure 60.2 in H₂O (15 kPa)
Exhaust outlet size

Lubrication System

Lubricating oil capacity total system 12.2 gal (46 L)
Maximum sump capacity
Minimum sump capacity
Maximum engine operating angles (front up, front down, right side or left side)

Lubricating Oil Pressure

Oil Temperature (continuous operation)
Oil Temperature (maximum intermittent operation)

Electrical System

Type
Alternator type
Alternator Voltage 24 V
Alternator Output
Starter motor type
Starter motor voltage 24 V
Starter motor power
Minimum cranking speed

Induction System

Maximum air intake restriction

Clean filter
Dirty filter
Air filter type Dry

Duct allowance with 50% glycol

Ambient Capacity of Radiator: 122 °F (50 °C)
Max Restriction of Radiator: 0.8 in/H₂O (0.2 kPa)
Radiator Air Flow: 13985 scfm (396 m³/min)

Fuel System

Type of injection
Fuel injection pump
Fuel atomizer

Fuel Lift Pump

Max flow through customer filter 60.4 gph (198 Lph)
Maximum suction head 16 ft (5 m)

Fuel Consumption

110% Load
100% Load 19.5 gph (73.7 Lph)
75% Load 15.1 gph (57.1 Lph)
50% Load 11.6 gph (43.8 Lph)



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Generator Controller Options



Digital Control Panel

The DGC-2020 digital GenSet controller provides integrated engine-GenSet control, protection, and metering. Microprocessor based technology allows for exact measurement, set point adjustment, and timing functions. Front panel 3 position controls and indicators enable quick and simple operation. The panel is also equipped with an emergency stop push button and an Alarm Horn with silence button. A wide temperature-range liquid crystal display (LCD) with backlighting can be viewed under a wide range of ambient light and temperature conditions down to 104° F (40° C).

Features SAE J1939 Engine ECU communications, Multilingual capability, Remote RS-485 communications for Optional RDP-110 Remote Annunciator, Extremely rugged, fully encapsulated design with 4 programmable contact inputs and 10 contact outputs (2 ADC rated).

It also features 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 End Mount Controller

This Generator control panel has analog instruments to monitor AC voltage, AC frequency, and percent of load. The analog engine instruments monitor oil pressure, water temperature, battery voltage, fuel level, and run time/hour meter. Safety shutdowns provide red LED indication for overspeed, overcrank, low oil pressure, and high coolant temperature. Provide green LED indication of engine running. Control switch is provided for local and remote starting with 3 position run/off/remote switch.

There is also an engine mounted emergency by-pass key switch.

AC 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 field. • 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	1020 CFM	
Peak Motor Starting	30% Voltage Dip, 930 kVA @ 480V	
Voltage Regulation	1 Phase Sensing 1%	
no-load and full-load	Optional 3 Phase Sensing 1/2%	



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Standard Features and Optional Accessories

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
- Owners Manual

Optional Accessories

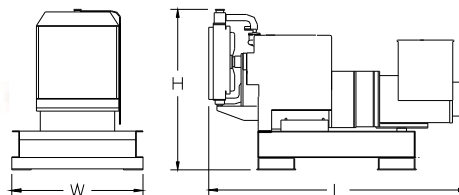
- Critical Exhaust Silencer
- Flex Exhaust Connector
- End Mount Analog Control Panel
- DGC2020 Digital Control Panel
- Modem for DGC2020
- Enhanced Gen Protection for DGC2020
- Surface Mount Remote Annunciator Panel for DGC2020
- Flush Mount Remote Annunciator Panel for DGC2020
- Remote Mount Break Glass E-Stop Switch
- Line Circuit Breaker
- 3 phase sensing
- Generator strip heater
- Weather Enclosure with external muffler
- Weather Enclosure with internal muffler
- Sound Attenuated weather enclosure
- Oil Pan Heater
- Battery
- Battery Charger
- Battery Heaters
- Sub-Base Fuel Tank
- Flexible Fuel Lines
- Customize to Your Specifications

Weights and Dimensions

Overall Size, L x W x H, in.: 140 in. x 66 in. x 75 in.

Weight (Wet): 6,610 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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A small business owned by service a connected disabled veteran.

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