

**Specifications & Application Data**

**POWERFORCE® Natural Gas Series Generator Sets for Oil & Gas Industry Applications:**

- POWERFORCE® Oil & Gas industry generators are designed to meet the rugged demands of the Oil & Gas industry environment, from exploration to production.
- Each model has been designed to provide reliable continuous power for typical Oil & Gas industry electrical loads. All models are extensively tested to ensure they meet the performance requirements of the industry.
- POWERFORCE® generators are packaged in our purpose built generator assembly and test facility. Each set goes through a fully documented test procedure before leaving our plant.
- POWERFORCE® models utilize the PSI Natural Gas engines governed to run at 1800 rpm for long life and durability.
- All Oil & Gas industry generators are designed and packaged as Prime Power Rated sets. See rating below for prime power kW



Voltage	Phase	Starting kVA (30% voltage dip)	PF	Prime		Amps @ 480V
				kW	kVA	
277/480	3	1500	0.8	400	500	601

**Rating Data of oil & Gas Industry Generators:** Prime – Prime Rating are applicable for supplying continuous power with a 105°C alternator temperature rise.

Engine Specifications	
Manufacturer	PSI
Engine model (Displacement liters)	D21.9L
Type	Stoichiometric 4-cycle
Number of cylinders & arrangement	12 V-type
Aspiration	Turbocharged/CAC
Nominal horse power	550 hp
Speed	1800 rpm
Radiator ambient rating F° (C°)	115° (46°)
Alternator Specifications	
Manufacturer model	Marathon Model 572RSL6425
Type	Brushless 4-Pole
Voltages (3 phases)	277/480V
Frequency	60Hz
Power Factor	0.80
Insulation	Class H
Winding Temperature Rise (Prime)	105°C
Bearing	Single-Bearing
Skid Design	
Base	Heavy duty powder coated
Convenient Drains	Coolant, Oil, Containment: Skid Sidewall
Enclosure	14 gauge industrial grade steel
Spill Containment	110% fluid spill containment

Starting	
Voltage	24 V Starter and Alternator
Batteries	2-Group 31
Cold cranking amps	950 Each
Reserve capacity	34 Minutes
Charge Alternator Output - Amps	45
Battery Location	Rail Mounted in Enclosure
Control Accessories	
Generator Controller:	Basler DGC2020HD Parallel Capable
Circuit breaker	SquareD 600 AMP
Standard Accessories	
Oil Make-up Tank	5 Gallon Kenco
Air Filter System	Single Stage Replaceable Filter
Gas Treatment	Gas Max GMFGS24 Scrubber LPG, NG, Wellhead NG
Dual Fuel	Compatible with Auto Switch
Exhaust system	Dual: Catalyst and USFS Spark Arrestor
Lubrication	Murphy/Kenco Oil Replenishment
Oil Filtration	Luberfiner Remote Auxillary Filter
Safety ShutDown	Low Oil Pressure; Low Coolant Level High Coolant Temp;
Optional Equipment Available	
Block Heater	Kim Hotstart 6000W; 7.2A; 480V
Cold Weather Options	CCV, Fuel Train, Scrubber Available

# Generator Digital Control Panel – For Manual, Automatic and Remote Control



## DGC-2020 Digital Genset Controller:

The **POWERFORCE®** is equipped with a proven generator digital controller for rugged environments such as C&I applications, drill platforms, pump jack sites, and landfills. The premium control box has the capability to control the generator set manually, remotely or automatically.

### Premium Specifications Include:

- NFPA-110 compliant
- User friendly, fully-configurable, programmable, microprocessor-based logic controller
- Offline Simulator BESTlogic™ helps identify and troubleshoot the logic
- High contrast display is easy to read

Model: PF-400G Natural Gas

Key Dimensions and Sound Levels



### Fuel Data

### Generator Set Enclosure Dimensions \* (All dimensions are in inches and are approximated)

Type	Consumption (cu. Ft./hour)	Length	Width		Height		Weight lbs	dBA
			Inches	Feet	Inches	Feet		
Natural Gas/LPG	4230 NG (1480 LPG)	252"	92"	7.667'	120"	10'	14,540 dry	86

\*All Measurements are approximate and for estimation purposes only. Weights are without fuel tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

## POWERFORCE® Generator sets comply with applicable codes and standards



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POWERFORCE® Sales Office • 3305 S. West St • Wichita • KS 67217 • Ph 316.789.7370