

# Model# PF-400G Oil & Gas Industry Natural Gas Generator

# **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



	Phase	Starting kVA (30% voltage dip)		Pri	me	Amps @ 480V
Voltage			PF	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				
Туре	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				
Туре	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				
CCNIEDAL					

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					
Canada a Canada a Harri	Basler DGC2020HD				
Generator Controller:	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				
Saftey 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				





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## 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.

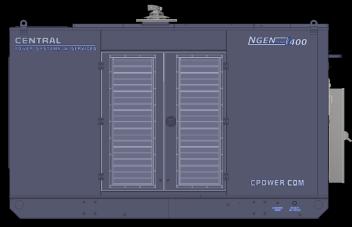
#### **Premium Specifications Include:**

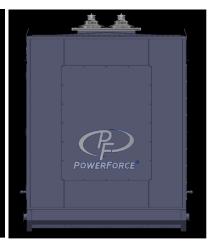
- NFPA-110 compliant
- User friendly, fully-configurable, programmable, microprocessor-based logic controller
- Offline Simulator BESTlogic™ helps identify and troubleshoot the logic
- High contrast display is easy to read

Model: PF-400G Natural Gas

**Key Dimensions and Sound Levels** 







Fuel Data		Generator Set Enclosure Dimensions * (All dimensions are in inches and are approximated)						
Туре	Consumption (cu. Ft./hour)	Length	Width		Height		Weight lbs	dBA
			Inches	Feet	Inches	Feet	Weight 183	
Natural Gas/LPG	4230 NG (1480 LPG)	252"	92"	7.667'	120"	10'	14,540 dry	86

<sup>\*</sup>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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