

Description:

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.

Standard Features:

- Oil Makeup Tank - 5 Gallon Kenco
- Air Filter System - Single Stage Replaceable Filter
- Gas Treatment - Gas Max GMFGS24 Scrubber
- Dual Fuel - LPG, NG, Wellhead NG Compatible with Auto Switch
- Exhaust System - Dual: Catalyst and USFS Spark Arrestor
- Lubrication - Murphy/Kenco Oil Replenishment
- Basler DCG2020HD Generator Controller
- Safety Shutdown - Low Oil Pressure; Low Coolant Level, High Oil Temp

Optional Equipment:

- Block Heater - Kim Hotstart 6000W; 7.2A; 480V
- Cold Weather Options - CCV, Fuel Train, Scrubber Available

POWER RATINGS	STANDBY		PRIME	
	Gaseous Fuel	kW	kVA	kVA
LPG	356.0	445.8	321.0	401.2
Natural Gas (NG)	625.0	784.2	565.0	700.0
Amperage 0.8 PF 480V	940		850	

ENGINE SPECIFICATION:

Manufacturer	PSI
Model	D31.8L
Emissions	US EPA Certified
Engine speed (rpm)	1800
Max. HP Power 1800 rpm	821 ISO3046
Cylinder arrangement	V-12
Combustion system	Stoichiometric
Aspiration	Turbocharged
Engine type	Diesel Derivative
Fuel	Natural Gas / LPG
Number of Cylinders	12
Displacement in ³ (liters)	1941/31.8
Bore and Stroke inches (mm)	5.906x5.906/150x150
Cooling	Coil and Tube
Governor	Integrated Isochrones
Starting aids	None
Compression ratio	10.5:1
Air cleaner type	Dry
Exhaust Silencer dBA	USFS Spark Arrestor
Fuel switch	Automatic

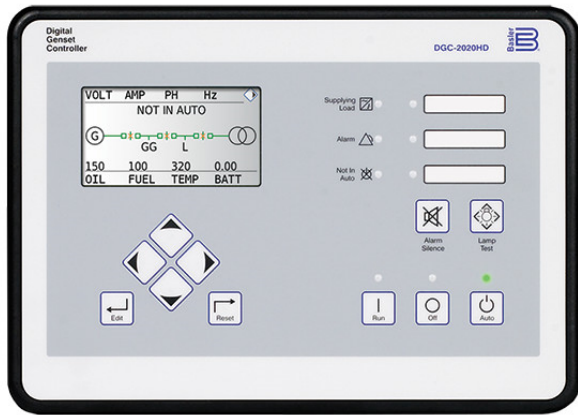
ENGINE ELECTRICAL SYSTEM:

Starting motor voltage	24DCV
Charger Amps	55
Battery Ampere Hours	200AH/1000CCA

ALTERNATOR:

Configuration	4 Pole 3 Phase/NEMA Class H Insulation
Frequency	60HZ
Voltage regulation	Automatic
No load to full load voltage regulation	Digital
Coupling	Direct
Bearing	Single
Manufacturer	Marathon
Model	572RSL6431
Load acceptance	100% Single Step
Compliance	NEMA, IEEE, CSA
Construction	Single Bearing Marine Insulation

CONTROL PANEL: DGC-2020HD, DIGITAL GENSET CONTROLLER



The DGC-2020HD 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.

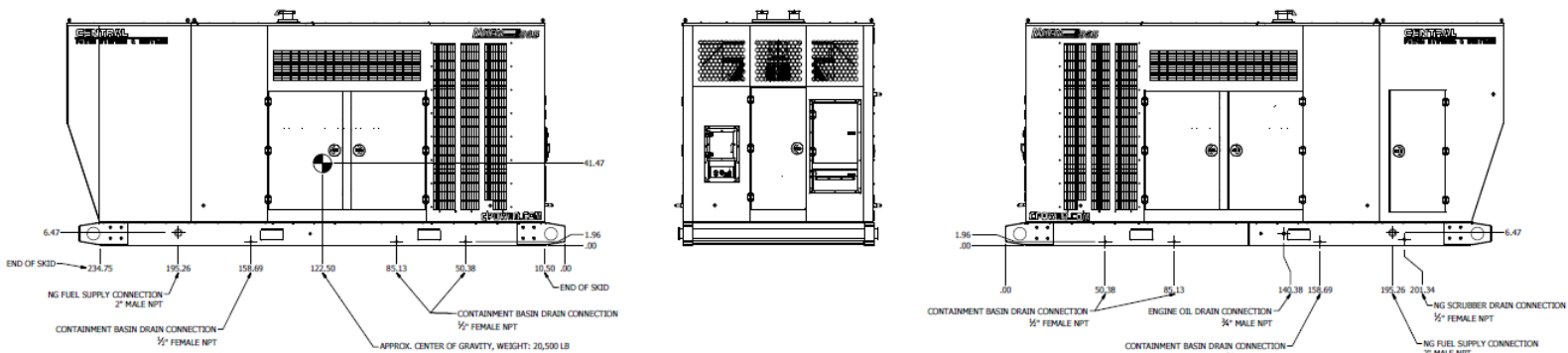
- NFPA-110 compliant
- User friendly, fully-configurable, programmable and microprocessor based logic controller
- Off-line Simulator Best-logic™ helps identify and troubleshoot the logic
- High contrast display is easy to read outdoors

Warranty/Disclaimer:

Except as may be expressly covered under applicable manufacturer(s) parts/product warranty, Central Power Systems & Services (CPS&S) liability arising out of service, repairs, or workmanship shall not exceed the cost of the original repair or service. Further, under no circumstances shall CPS&S be liable for incidental, consequential or other economic loss damages to customer. This includes but may not be limited to loss of use of equipment or vehicle, down time, inconvenience, cargo damage, overtime or any other costs or expenses resulting from services, repairs or workmanship.

LUBRICATING SYSTEM:	
Total lubricating capacity quarts (Liter)	129/122
Recommended lubricating oil grade	SAE 15W-40 Low Ash NG Engine Oil
Oil Pressure Minimum 1800RPM – psi (bars)	47/3.24
Maximum Allowable Oil Temperature F (C)	250/121
COOLING SYSTEM FOR OPERATING AT 120° AMBIENT:	
Cooling System	Radiator CAC Combo
Engine Coolant Capacity Gallons (Liters)	68.1/257.6
Fan	Pusher
Radiator	PSI
Cooling Air Flow	65,100
ARRANGEMENT:	
Coupling	Flexible
Enclosure	Yes
Base arrangement	Generator and Containment
Spill containment	100%

DIMENSIONS, WEIGHTS & SOUND LEVELS



FUEL DATA		GENERATOR SET ENCLOSURE DIMENSIONS * (ALL DIMENSIONS ARE IN INCHES AND ARE APPROXIMATED)						
Type	Consumptions (cu. Ft./hour)	Length	Width		Height		Weight lbs	dBA
			Inches	Feet	Inches	Feet		
Natural Gas/LPG	7981 NG (255 LPG)	251.19"	96"	8.0'	118.64'	9.88'	19,240 wet	86

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