



ENGINE SPECIFICATION:

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 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 - 16 Gallon Kenco
- Air Filter System - Donaldson PSD PowerCore
- Gas Treatment - Scrubber
- Dual Fuel - LPG, NG, Wellhead NG Compatible with Auto Switch
- Exhaust System - Dual: Catalyst and USFS Spark Arrestor
- Lubrication - Murphy/Kenco Oil Replenishment
- Safety Shutdown - Low Oil Pressure; Low Coolant Level, High Oil Temp
- CAMLOCK Connectors
- Gas Train Heat Tracing
- Courtesy Power-120 AC w/3 20A GFCI

OPTIONAL EQUIPMENT:

- Block Heater - Kim Hotstart
- Pad Mounted - No Trailer

ENGINE ELECTRICAL SYSTEM:

Starting Motor Voltage	24DCV
Charger Amps	45
Battery Ampere Hours	200AH/1000CCA

POWER RATINGS: STANDBY: PRIME:

GASEOUSE FUEL	kW kVA Amp	kW kVA Amp
LPG	350 438 527	305 381 459
NATURAL GAS (NG)	500 625 753	450 563 677
AMPERAGE	@480V	@480V

Manufacturer	MTU
Model	12V1600 L80S
Emissions	US EPA Certified
Engine Speed (RPM)	1800
Max. HP Power 1800 RPM	757
Cylinder Arrangement	V-12
Combustion System	Stoichiometric
Aspiration	Turbocharged
Engine Type	Diesel Derivative
Fuel	Natural Gas / LPG
Number of Cylinders	12
Displacement (liters)	21.0
Bore & Stroke inches (mm)	4.72x5.91
Cooling	Coil and Tube
Starting Aids	None
Compression Ratio	11.0:1
Air Cleaner Type	Dry
Exhaust Silencer dBA	USFS Spark Arrestor
Fuel Switch	Automatic
Consumptions (cu. Ft./ hour)	5480 NG (2440 LPG)

ALTERNATOR:

Configuration	4 Pole 3 Phase/NEMA Class H Insulation
Frequency	60HZ
Voltage Regulation (No Load to full load regulation)	Automatic
Coupling	Direct
Bearing	Single
Manufacturer	MECC ALTE
Model	ECO40 354 C

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, 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.

ARRANGEMENT:

Coupling	Flexible
Enclosure	Yes
Base Arrangement	Generator & Containment
Spill Containment	110%

LUBRICATING SYSTEM:

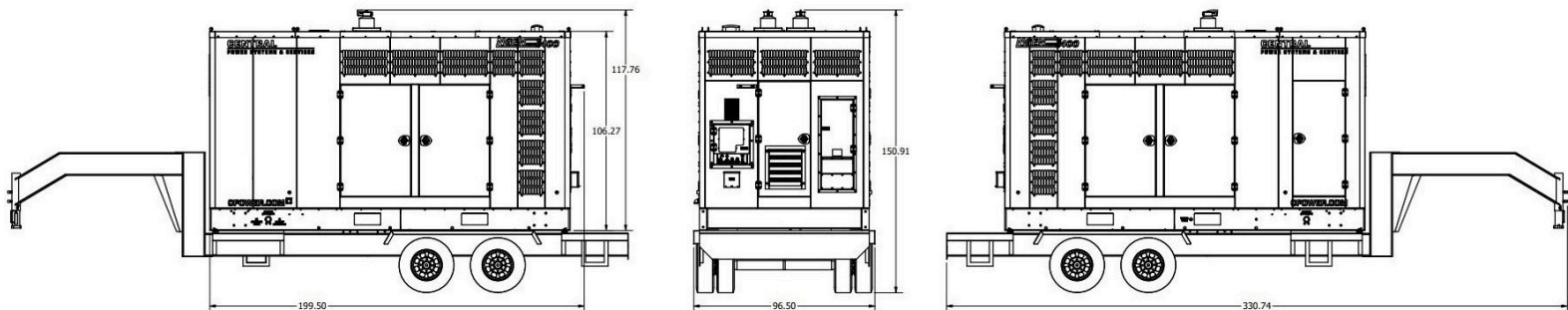
Lube oil capacity Litres/Gallons	73L/19.3 US Gallons
Recommended Lube oil	MTU Category 3.1 10W-40
Minimum oil pressure PSI/Bar	@800 RPM 43.5 PSI 3 Bar
Max. allowable Oil Temp F (C)	250/121

COOLING SYSTEM FOR OPERATING AT 120° AMBIENT

Cooling System	Radiator/CAC Combo
Engine Coolant Capacity Litres/Gallons	119L 31.4 US Gallons
Fan	Pusher
Radiator	MTU
Cooling Air Flow	43,500

DIMENSIONS, WEIGHTS & SOUND LEVELS

Engine Data Per MTU data sheet
 ** Standard Generator Breaker 800A, 100% Rated.



FUEL DATA:

GENERATOR SET ENCLOSURE DEMENSIONS* (ALL ARE IN INCHES & ARE APPROXIMATED)

Type	Consumptions (cu. Ft./ hour)	Length	Width	Height	Weight LBS	dBa
Natural Gas/LPG	5480 NG 2440 LPG	192"	90.5"	117.75 " 9.8'	14,540 dry	86

Natural Gas Fuel Pressure: (35-100) PSI

LPG Fuel Pressure (30-250) PSI

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