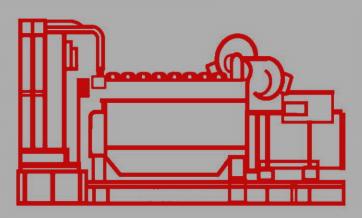
EPG125JD



Industrial Diesel Generator Sets

EPA Certified Tier 3 for Stationary Emergency Applications



Genset Standby Power Rating

Voltage	208/120V
Power	130kW
Phase	3
Pf	0,8
Current	434A
Alternator Model	UCI274F
Temp Rise	125 / 40 °C
Connection	12 Leads WYE

Continuous Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a constant electrical load. Average load can be 100%. The generator must not be overloaded.

Prime Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

Standby Power

The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hrs of operation per year under average of 70% load. Overloading isn't permissible.

Certifications & Standards

The Generator set is designed and manufactured in a facility certified to ISO9001:2015, ISO14001:2015, ISO45001-2018 and ISO10002:2014 standards.

Generator set is UL2200, cUL listed and meets ISO 8528-5

The generator set, with its components, are prototype tested, factory-built and production tested per UL standards.

The generator set meets NFPA110 Level 1 when equipped with the necessary accessories and installed per NFPA standards.

EPG125JD



Industrial Diesel Generator Sets

Standard Features - Engine

EPA Certified - Emergency Stationary Only

Heavy-duty, 4-cycle, direct injection

Unit Mounted Radiator

Electronic Isochronous Governor

Fuel - Water Separator Filter

ISO 8528, ISO 3046, BS 5514, DIN 6271 standards

Capable of full rated load acceptance in one step

Low emission and maximum reliability and durability

Heavy Duty Air Cleaner w/Restriction Gauge

Flex Exhaust Connection

Application Data - Engine

Engine	
Manufacturer	John Deere
Model	4045HF285
Number of Cylinders	4
Cycle	4 strokes
Cubic Capacity	4.5 liters
Bore x Stroke	106mm x 127mm
Aspiration	Turbocharged and air-to-air aftercooled
Combustion System	Direct Injection Diesel
BMEP	1980 kPa
Rated rpm	1800

Fuel Consumption	
Standby Power (100%)	9.91 gal/hr
At 75%	7.64 gal/hr
At 50%	5.56 gal/hr
At 25%	3.01 gal/hr

Cooling System	
Ambient Capacity of Radiator	116.6 °F (47 °C)
Total Coolant Capacity	8.5 Liter
Engine Coolant Flow	180 L/min
Combustion Air Flow	8.8m³/min
Thermostat Operating Range	82 °C to 95 °C
Max Top Tank Temperature	110 °C

Electrical System		
Starting Motor Voltage	12V	
Battery Charging Alternator	65A	
Battery Qty, CCA Rating	1 x 102Ah, 860A	

Fuel System	
Type of Injection System	HPCR
Fuel Pump	Denso HP3
Governor Type	Electronic
Priming Pump Type	Manual

Exhaust System	
Exhaust Gas Temp	572 °C
Max Allowable Back Pressure	7.5 kPa
Exhaust Gas Flow	24.6 m ³ /min

EPG125JD



Industrial Diesel Generator Sets

Standard Features - Alternator

Brushless Single Bearing

125/40 °C Temperature Rise

Class H Insulation

Low waveform distortion with non-linear loads

EC 60034-1; CEI EN 60034-1; NEMA MG 1.22, NF 51- 100,111

AREP Excitation
300% Short Circuit Capability
Low reactance 2/3 pitch windings
Self-ventilated and drip-proof construction
BS 4999-5000; VDE 0530, OVE M-10

Application Data - Alternator

Manufacturer		Stamford
Туре		4 Poles, Brushless
Protection		IP 23
Voltage Regulation		± 1.0 %
One Step Load Acceptance		100% of rated load
Bearing		Double
Altitude		≤1000 meters
Over Speed		2250 rpm
AVR		SX460
Genset Voltage	208/120V	
Alternator Model	UCI274F	
Leads	12 - WYE	
P.F.	0,8	
Power @ Continuous 40 °C	181.3 kVA/ 145kW	
Efficiency @ 100% load	92.1%	

Application Data - Circuit Breaker

Genset Voltage	208/120V	
ABB (80% Rated) Breaker Model	T5N 600	
Current Rating (In)	600A	
Trip Unit	LS/I	

EPG

Industrial Diesel Generator Sets

Control Panel

Manufacturer	DSE - Deep Sea Electronics
Model	7310 MKII
DC Supply	8 to 35V Continuous
Generator Voltage Range (Ph-Ph)	26V to 719V AC
Generator Frequency Range	3,5Hz to 75Hz
	BS EN 61000-6-2, BS EN 61000-6-4,
	BS EN 60950, BS EN 60529
Standards	BS EN 60068-2-1, BS EN 60068-2-2
	BS EN 60068-2-6, BS EN 60068-2-30

Protections



License free PC software 4-Line back-lit LCD text display Five key menu navigation LCD Alarm Indication DSENet expansion compatibility Internal PLC editor Protection disable feature Data logging facility Fully configurable via PC Front panel configuration Power safe mode 6 configurable DC outputs 2 configurable analogue/digital inputs

o cornigarable bo outputs
2 configurable volt free relay outputs
6 configurable analogue/digital inputs
8 configurable digital inputs
Configurable 5 stage dummy load and load shedding outputs
Backed up real time clock

Fuel usage monitor and low fuel level alarms

Remote SCADA monitoring via DSE Configuration Suite PC Software

Advanced SMS messaging (additional external model required)

Start & Stop capability via SMS messaging

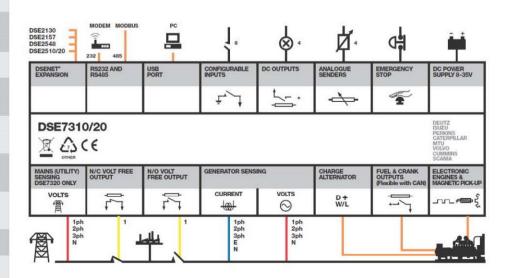
Configurable event log (250)

Multiple date and time scheduler

/	Gen. Voltage – under / over
1	Gen. Freq. – under / over
/	Engine Speed – under / over
/	Engine Oil Pressure – low
1	Engine Temp – low / high
1	Battery Voltage – low / high
/	Weak Battery
/	Fail to Start / Stop
/	Charge Alternator Fail
/	Over Current & Load (kW/kVAr)
/	Unbalanced Load
/	Independent Earth Fault
/	Reverse Power
1	Loss of Speed Signal

BS EN 60068-2-78, BS EN 60068-2-27

Gen. Frequency Engine speed Oil Pressure Water Temperature Battery Voltage Run Time Phase Sequence Power monitoring (kWh/kVAh/kVArh) Power (kWh/kVAh/kVArh) Power Factor Generator Current Generator Load (%)	Instruments
/ Engine speed / Oil Pressure / Water Temperature / Battery Voltage / Run Time / Phase Sequence / Power monitoring (kWh/kVAh/kVArh) / Power (kWh/kVAh/kVArh) / Power Factor / Generator Current / Generator Load (%)	√ Gen. Voltage (L-L/L-N)
/ Oil Pressure / Water Temperature / Battery Voltage / Run Time / Phase Sequence / Power monitoring (kWh/kVAh/kVArh) / Power (kWh/kVAh/kVArh) / Power Factor / Generator Current / Generator Load (%)	√ Gen. Frequency
Water Temperature Battery Voltage Run Time Phase Sequence Power monitoring (kWh/kVAh/kVArh) Power (kWh/kVAh/kVArh) Power Factor Generator Current Generator Load (%)	✓ Engine speed
Battery Voltage Run Time Phase Sequence Power monitoring (kWh/kVAh/kVArh) Power (kWh/kVAh/kVArh) Power Factor Generator Current Generator Load (%)	✓ Oil Pressure
Run Time Phase Sequence Power monitoring (kWh/kVAh/kVArh) Power (kWh/kVAh/kVArh) Power Factor Generator Current Generator Load (%)	✓ Water Temperature
 Phase Sequence Power monitoring (kWh/kVAh/kVArh) Power (kWh/kVAh/kVArh) Power Factor Generator Current Generator Load (%) 	✓ Battery Voltage
Power monitoring (kWh/kVAh/kVArh) Power (kWh/kVAh/kVArh) Power Factor Generator Current Generator Load (%)	/ Run Time
Power (kWh/kVAh/kVArh) Power Factor Generator Current Generator Load (%)	/ Phase Sequence
✓ Power Factor✓ Generator Current✓ Generator Load (%)	/ Power monitoring (kWh/kVAh/kVArh)
✓ Generator Current ✓ Generator Load (%)	/ Power (kWh/kVAh/kVArh)
✓ Generator Load (%)	/ Power Factor
	√ Generator Current
/ Earth Current	√ Generator Load (%)
	/ Earth Current





Industrial Diesel Generator Sets

Standard Features - General

Heavy duty structural steel base frame

Battery charger

Jacket Water Heater

Oil & Coolant Drain Extensions

Operations Manual

Critical grade silencer

Battery tray and cables

Heater Isolation Valves

Rubber vibration Isolator

Standby Limited Warranty

Battery Charger

Manufacturer	DSE
Model	9470 MKII
Operation Voltage (L-N)	90V to 305V
Output Current	10A

Jacket Water Heater

Manufacturer	Hotstart
Model	TPS101GT10-000
Operation Voltage	120V
Power	1000W

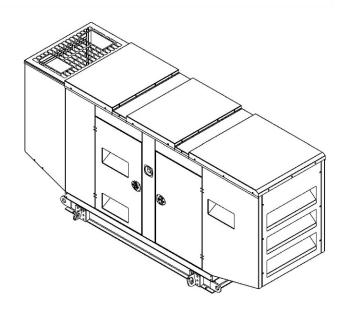
Dimensions, Weights & Sound Levels

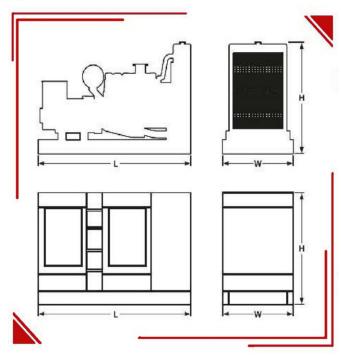
	L x W x H (inches)	Weight (lbs)	Sound Level *
Open Skid	97 x 40 x 59	3121	-
Level 2 Enclosure	140 x 40 x 67	4224	TBA

^{*} Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at stan-by power rating

Fuel Tank (UL142 Listed - Option)

Size L x W x H (inches) Weight (lbs) 250gal/24hr





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