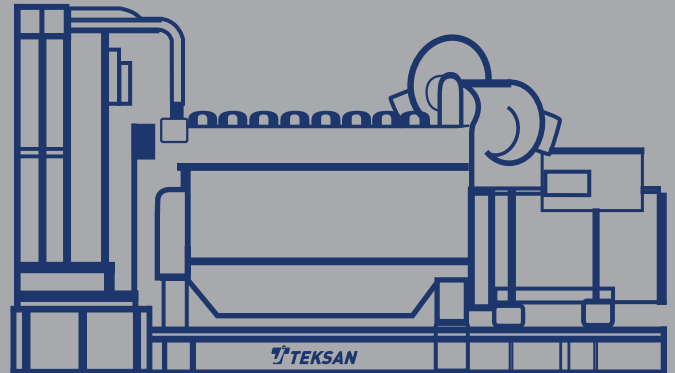


TJT4F66JD

Industrial Diesel Generator Sets

EPA Certified for Mobile / Stationary Prime Applications



Genset Standby Power Rating

Voltage	208/120V	480/277V	240/120V	Multi Voltage		
				208/120V	480/277V	240/120V
Phase	3	3	1	3	3	1
Pf	0,8	0,8	1	0,8	0,8	1
Alternator Model	LSA44.3S2	LSA 42.3 L9	LSA44.3S2	LSA 44.3 S3		
Temp Rise	125 / 40 °C	125 / 40 °C	125 / 40 °C	125 / 40 °C		
Connection	12 Leads PS	12 Leads SS	12 Leads DD	Voltage Selector Switch		
Standby Power kW/kVA	57/72	56/71	46/46	58/73	58/73	52/52
Current	200A	85A	192A	202A	87A	217A
Prime Power kW/kVA	52/65	51/64	46/46	53/66	53/66	52/52
Current	181A	77A	192A	183A	79A	216A

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.

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

Application Data - Engine

Engine	
Manufacturer	JOHN DEERE
Model	4045HFG04
Number of Cylinders	4, Inline
Cubic Capacity	4.5 L
Bore x Stroke	4.2 in x 5.0 in
Aspiration	Turbocharged, air to air aftercooled
Combustion Ratio	17.0:1
Gross Engine Power - Standby	67 kW
Net Engine Power - Standby	62.3 kW
Gross Engine Power - Prime	61 kW
Net Engine Power - Prime	56.3 kW
Rated rpm	1800
Emission	Tier 4 Final

Electrical System	
Starting Motor Voltage	12V
Battery Charging Alternator	110A
Battery Qty, CCA Rating	1 x 75Ah, 700A

Fuel System	
Fuel Injection	Denso
Fuel Pump	Common Rail
Governor Type	ECU
Fuel Filter	Full flow, cartridge type

Fuel Consumption	
Standby Power (110% of Prime)	4.45 gal/h
Prime Power (100%)	4.05 gal/h
DEF Consumption	4% of Diesel consumption

Cooling System	
Cooling Method	Fresh water forced circulation
Total Coolant Capacity	2.25 gallons
Water Pump	Centrifugal type driven by belt
Cooling Fan	Blower type, Ø24.80 in
Water temperature	235 °F (max.)

Lubrication System	
Oil Filter	Full flow, cartridge type
Total lubricating capacity	3.88 gallons
Lubricating Oil	SAE 10W30
Max Oil Temperature	280 °F at main oil gallery

Engineering Data	
Water Flow	64.72 gallons/min
Air Flow	18158.13 gallons/min
Exhaust Gas Temperature	716 °F
Max. Intake Permission Restrictions	6.25 kPa dirty filter
Max. Exhaust Permission Restrictions	10.3 kPa

Application Data - Alternator

Manufacturer	Leroy Somer					
Type	4 Poles, Brushless					
Protection	IP 23					
Voltage Regulation	± 0.25%					
One Step Load Acceptance	100% of rated load					
Bearing	Single					
THD in Linear Load	< 5%					
Waveform: NEMA TIF	< 50					
Altitude	≤ 1000 meters					
Over Speed	2250 rpm					
AVR	D350					
Genset Voltage	208/120V	480/277V	240/120V	208/120V	480/277V	240/120V
Alternator Model	LSA44.3S2	LSA 42.3 L9	LSA44.3S2	LSA 44.3 S3		
Phase / Leads / Connection	3 / 12 / PS	3 / 12 / SS	1 / 12 / DD	Multi Voltage Selector - 3/3/1		
P.F.	0,8	0,8	1	0,8	0,8	1
Power @ Temp Rise 125/40 °C	76kVA	75kVA	46kVA	87kVA	100kVA	52kVA
Power @ Temp Rise 105/40 °C	69kVA	68kVA	42kVA	79kVA	91kVA	47kVA
Efficiency @ 100% load	92,60%	90,90%	92,00%	92,40%	91,90%	92,20%
skVA @ 30% Voltage Dip (P.F. = 0.6)	200kVA	200kVA	-	200kVA	270kVA	-

Application Data - Circuit Breaker

Genset Voltage	208/120V	480/277V	240/120V	Multi Voltage
ABB (80% Rated) Breaker Model	200A	100A	200A	250A

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
Standards	BS EN 61000-6-2, BS EN 61000-6-4, BS EN 60950, BS EN 60529 BS EN 60068-2-1, BS EN 60068-2-2 BS EN 60068-2-6, BS EN 60068-2-30 BS EN 60068-2-78, BS EN 60068-2-27



Key Features

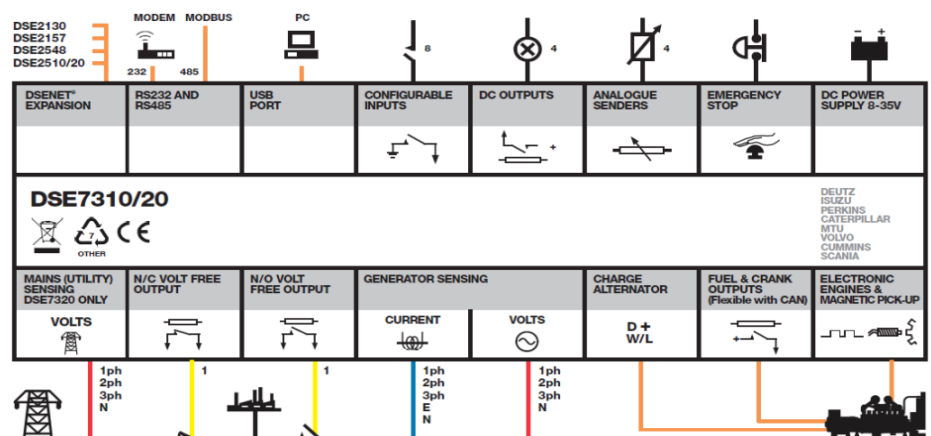
License free PC software
4-Line back-lit LCD text display
Five key menu navigation
LCD Alarm Indication
DSENet expansion compatibility
Internal PLC editor
Protection disable feature
Data logging facility
Fully configurable via PC
Front panel configuration
Power safe mode
6 configurable DC outputs
2 configurable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

Protections

✓ Gen. Voltage – under / over
✓ Gen. Freq. – under / over
✓ Engine Speed – under / over
✓ Engine Oil Pressure – low
✓ Engine Temp – low / high
✓ 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
✓ Loss of Speed Signal

Instruments

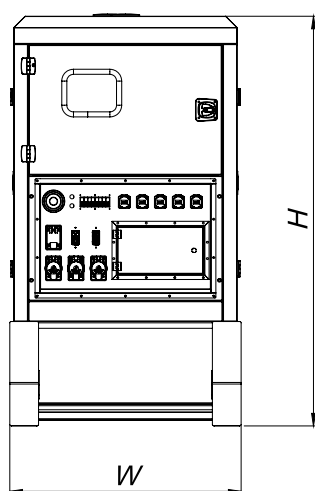
✓ Gen. Voltage (L-L/L-N)
✓ Gen. Frequency
✓ Engine speed
✓ Oil Pressure
✓ Water Temperature
✓ Battery Voltage
✓ Run Time
✓ Phase Sequence
✓ Power monitoring (kWh/kVAh/kVArh)
✓ Power (kW/kVAh/kVArh)
✓ Power Factor
✓ Generator Current
✓ Generator Load (%)
✓ Earth Current



Dimensions, Weight & Sound Data

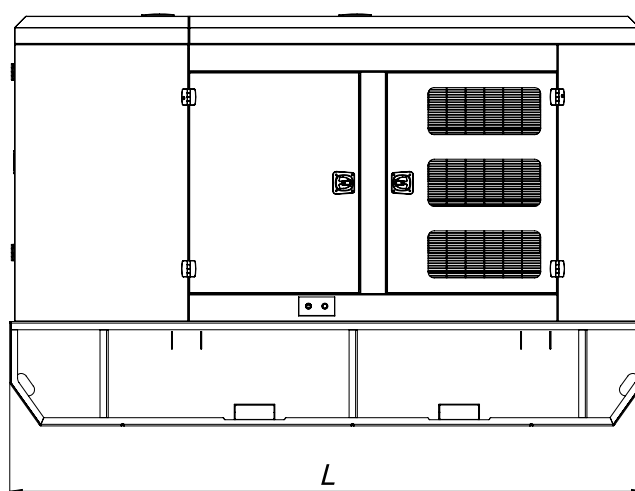
Enclosed Genset Data

L (inches)	W (inches)	H (inches)	Weight (lbs)
122"	44.5"	80.9"	5600



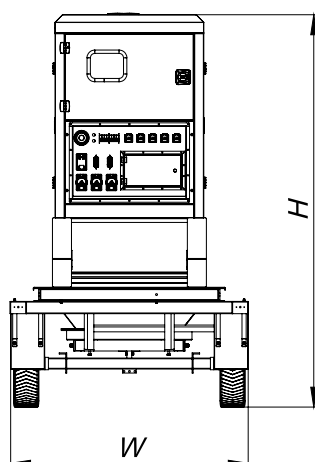
Integral Base Tank / DEF Tank

Sound Level	Run Time	Tank Capacity	DEF Capacity
67dBA*	36h	159gal / 600lt	5.6gal / 21lt



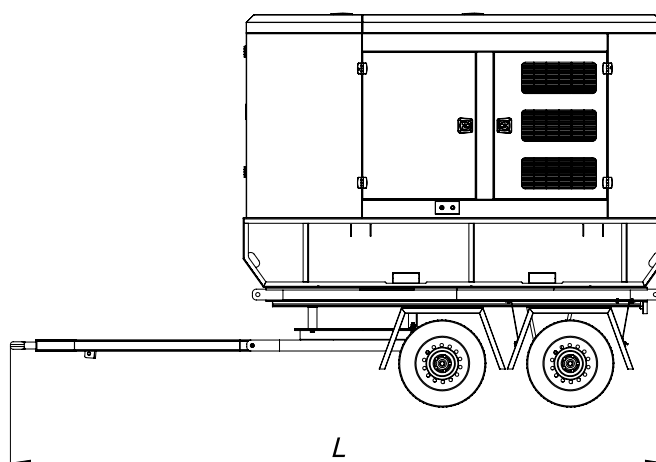
Genset w / Trailer Data

L (inches)	W (inches)	H (inches)	Weight (lbs)
185"	90"	107"	7100



Integral Base Tank / DEF Tank

Sound Level	Run Time	Tank Capacity	DEF Capacity
67dBA*	36h	159gal / 600lt	5.6gal / 21lt



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

Standard Features & Accessories

General

- ☐ Galvannealed Steel Enclosure
- ☐ Heavy Duty Base Frame (110% Fluids Containment)
- ☐ Integrated 24h Double Wall Fuel Tank
- ☐ Fork pockets and transportation tie downs
- ☐ Rust Prevention Hardware (Latches/Hinges)
- ☐ Single Top Lifting Hook (Genset only)
- ☐ Locable Fuel Filling Cap on Enclosure
- ☐ Jacket Water Heater w/Isolation Valves
- ☐ DOC Catalysts / Silencer Mounted
- ☐ 3 Way Fuel Connection Valve
- ☐ Oil & Coolant Drain Extension
- ☐ Vibration Isolation Mounts

Electrical

- ☐ Three Position Voltage Selector Switch
- ☐ Main Line CB
- ☐ Battery Charger
- ☐ Voltage Adjust Rheostat

Convenience Panel

- ☐ (3)-50A 125/250VAC 3P4W Twist Lock CS6369
- ☐ 2-20A 120VAC Duplex GFCI Nema 5-20R
- ☐ Thumb Screw Terminals for 2-Wire Remote Start
- ☐ 15A 120VAC Male Receptacle Shore Power Connection
- ☐ (5)-400A Rated Female Cam Style Locking Receptacles
- ☐ (5)-400A Rated Lug Connection
- ☐ Emergency Stop Switch

Optional Accessories

General

- ☐ DOT Approved Trailer
- ☐ Trailer Mounted Spare Tire
- ☐ Trailer Mounted Tool Box
- ☐ Battery Disconnect Switch
- ☐ Crankcase Ventilation Filter

Electrical

- ☐ Low Fuel Level Switch & Alarm
- ☐ Fuel Level Monitoring via Controller
- ☐ Low Coolant Switch & Alarm
- ☐ Paralelling Controller Upgrade
- ☐ Motor Operated Breaker

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