## TJT4F196JD

## **Industrial Diesel Generator Sets**

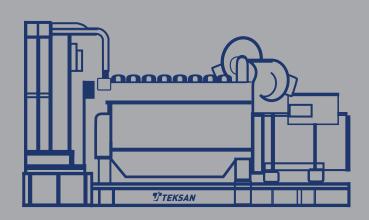
EPA Certified for Mobile / Stationary Prime Applications











### **Genset Standby Power Rating**

Voltage	208/120V	480/277V	240/120V	208/120V	Multi Voltage 480/277V	240/120V
Phase	3	3	1	3	3	1
Pf	0,8	0,8	1	0,8	0,8	1
Alternator Model	LSA44.3VL14	LSA44.3VL13	LSA44.3VL14		LSA 46.3 S5	
Temp Rise	125 / 40 °C	125/40°C	125/40°C		125 / 40 °C	
Connection	12 Leads PS	12 Leads SS	12 Leads DD	Vo	Itage Selector Swit	ch
Standby Power kW/kVA	172/215	174/218	125/125	173/216	173/216	164/164
Current	597A	262A	521A	598A	260A	684A
Prime Power kW/kVA	158/197	158/198	125/125	156/196	156/196	149/149
Current	547A	238A	521A	543A	236A	621A

#### **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	6068HFG05
Number of Cylinders	4, Inline
Cubic Capacity	6.8 L
Bore x Stroke	4.2 in x 5.0 in
Aspiration	Turbocharged, air to air aftercooled
Combustion Ratio	17.2:1
Gross Engine Power - Standby	192 kW
Net Engine Power - Standby	186.2 kW
Gross Engine Power - Prime	175 kW
Net Engine Power - Prime	169.2 kW
Rated rpm	1800
Emission	Tier 4 Final

Electrical System	
Starting Motor Voltage	12V
Battery Charging Alternator	110A
Battery Oty, 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)	12.2 gal/h
Prime Power (100%)	10.2 gal/h
DEF Consumption	3.3% of Diesel consumption

Cooling System	
Cooling Method	Fresh water forced circulation
Total Coolant Capacity	3.14 gallons
Water Pump	Centrifugal type driven by belt
Cooling Fan	Blower type, Ø27.95 in
Water temperature	235 °F (max.)

Lubrication System	
Oil Filter	Full flow, cartridge type
Total lubricating capacity	7.13 gallons
Lubricating Oil	SAE 10W30
Max Oil Temperature	280 °F at main oil gallery

Engineering Data	
Water Flow	123.63 gallons/min
Air Flow	44258.1 gallons/min
Exhaust Gas Temperature	755 °F
Max. Intake Permission Restrictions	6.25 kPa dirty filter
Max. Exhaust Permission Restrictions	12.8 kPa



Application Data - Alternator	
Manufacturor	

Manufacturer			Leroy So	mer		
Туре		4 Poles, Brushless				
Protection			IP 23			
Voltage Regulation			± 0.25	%		
One Step Load Acceptance			100% of rate	ed load		
Bearing			Single	9		
THD in Linear Load			< 5%	)		
Waveform: NEMA TIF			< 50			
Altitude			≤1000 m	eters		
Over Speed			2250 rp	om		
AVR			D350			
Genset Voltage	208/120V	480/277V	240/120V	208/120V	480/277V	240/120V
Alternator Model	LSA44.3VL14	LSA44.3VL13	LSA44.3VL14		LSA 46.3 S5	
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	215kVA	225kVA	125kVA	265kVA	313kVA	165kVA
Power @ Temp Rise 105/40 °C	196kVA	205kVA	114kVA	241kVA	284kVA	150kVA
Efficiency @ 100% load	93,20%	93,60%	89,80%	92,50%	92,90%	88,10%
skVA @ 30% Voltage Dip (P.F. = 0.6)	525kVA	700kVA	-	560kVA	750kVA	-

## **Application Data - Circuit Breaker**

Genset Voltage	208/120V	480/277V	240/120V	Multi Voltage
ABB (80% Rated) Breaker	600A	300A	600A	800A



### **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
	BS FN 60068-2-78, BS FN 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)

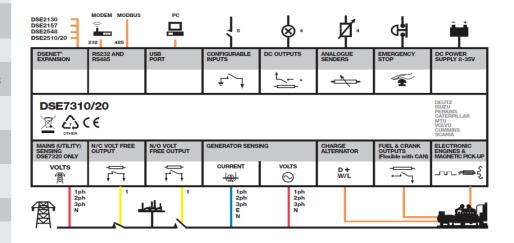
√ Power (kWh/kVAh/kVArh)

✓ Power Factor

√ Generator Current

√ Generator Load (%)

√ Earth Current





## **Dimensions, Weight & Sound Data**

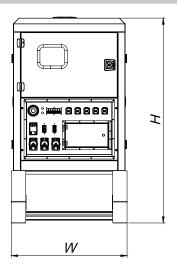
### **Enclosed Genset Data**

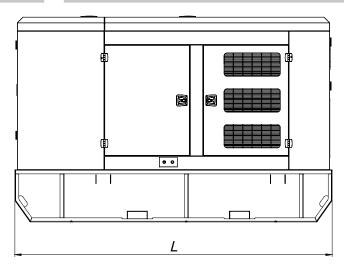
L (inches) W (inches) H (inches) Weight (lbs)

155.5" 55.1" 93.5" 8250

### **Integral Base Tank / DEF Tank**

Sound Level	Run Time	Tank Capacity	DEF Capacity
71dBA*	27h	277gal / 1050lt	7.9gal / 30lt





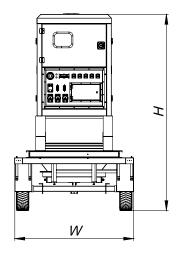
### **Genset w / Trailer Data**

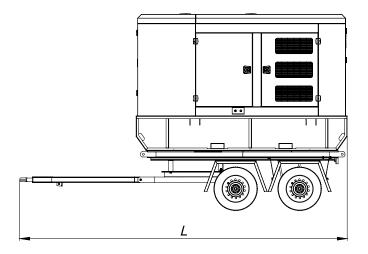
L (inches) W (inches) H (inches) Weight (lbs)

TBA TBA TBA TBA TBA

## **Integral Base Tank / DEF Tank**

Sound Level	Run Time	Tank Capacity	DEF Capacity
71dBA*	27h	277gal / 1050lt	7.9gal / 30lt





<sup>\*</sup>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.

# TJT4F196JD

## **Industrial Diesel Generator Sets**



### **Standard Features & Accessories**

General	Electrical
□ Galvennealed Steel Enclosure	☐ Three Position Voltage Selector Switch
☐ Heavy Duty Base Frame (110% Fluids Containtment)	□ Main Line CB
□ Integrated 24h Double Wall Fuel Tank	□ Battery Charger
□ Fork pockets and transportation tie downs	□ Voltage Adjust Rheostat
□ Rust Prevention Hardware (Latches/Hinges)	Convenience Panel
□ Single Top Lifting Hook (Genset only)	□ (3)-50A 125/250VAC 3P4W Twist Lock CS6369
□ Locable Fuel Filling Cap on Enclosure	□ 2-20A 120VAC Duplex GFCI Nema 5-20R
□ Jacket Water Heater w/Isolation Valves	☐ Thumb Screw Terminals for 2-Wire Remote Start
□ DOC Catalysts / Silencer Mounted	□ 15A 120VAC Male Receptacle Shore Power Connection
□ 3 Way Fuel Connection Valve	□ (5)-400A Rated Female Cam Style Locking Receptacles
□ Oil & Coolant Drain Extension	□ (5)-400A Rated Lug Connection
□ Vibration Isolation Mounts	□ Emergency Stop Switch

## **Optional Accessories**

General	Electrical
□ DOT Approved Trailer	□ Low Fuel Level Switch & Alarm
☐ Trailer Mounted Spare Tire	□ Fuel Level Monitoring via Controller
☐ Trailer Mounted Tool Box	□ Low Coolant Switch & Alarm
□ Battery Disconnect Switch	□ Paralelling Controller Upgrade
□ Crankcase Ventilation Filter	□ Motor Operated Breaker

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