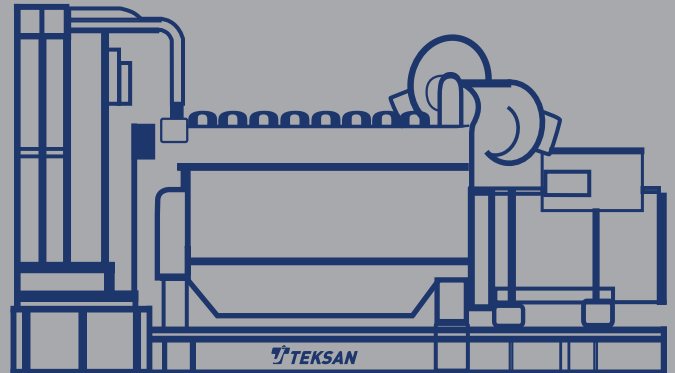


# TJT4F700V

## 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	LSA 49.3 M6	LSA 47.3 L10	-	LSA 49.3 M6		
Temp Rise	125 / 40 °C	125 / 40 °C	-	125 / 40 °C		
Connection	12 Leads PS	12 Leads SS	-	Voltage Selector Switch		
Standby Power kW/kVA	617/772	618/772	-	617/772	620/775	-
Current	2143A	929A	-	2143A	933A	-
Prime Power kW/kVA	562/702	561/701	-	562/702	563/704	-
Current	1949A	844A	-	1949A	847A	-

#### 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	Volvo
Model	TWD1673GE
Number of Cylinders	6, Inline
Cubic Capacity	16.12 L
Bore x Stroke	5.67 in x 6.50 in
Aspiration	Turbocharged, air to air aftercooled
Combustion Ratio	16.8:1
Gross Engine Power - Standby	685 kW
Net Engine Power - Standby	655 kW
Gross Engine Power - Prime	625 kW
Net Engine Power - Prime	595 kW
Rated rpm	1800
Emission	Tier 4 Final

Electrical System	
Starting Motor Voltage	24V
Battery Charging Alternator	N/A
Battery Qty, CCA Rating	2 x 100Ah, 860A

Fuel System	
Fuel Injection	Bosch
Fuel Pump	Common Rail
Governor Type	Volvo/EMS 2.3
Fuel Filter	Full flow, cartridge type

Fuel Consumption	
Standby Power (110% of Prime)	39.8 gal/h
Prime Power (100%)	37.8 gal/h
DEF Consumption	6.1% of Diesel consumption

Cooling System	
Cooling Method	Volvo Penta coolant „ready mix or Volvo Penta coolant mixed with fresh water 40/60
Total Coolant Capacity	43.85 gallons
Water Pump	Centrifugal type driven by belt
Cooling Fan	Blower type, Ø38.00 in
Water temperature	225 °F (max.)

Lubrication System	
Oil Filter	Full flow, cartridge type
Total lubricating capacity	23.78 gallons
Lubricating Oil	15W40 / 5W30
Max Oil Temperature	266 °F at main oil gallery

Engineering Data	
Water Flow	134.728 gallons/min
Air Flow	223489.57 gallon/min
Exhaust Gas Temperature	851 °F
Max. Intake Permission Restrictions	1.4 kPa clean Volvo Penta filter
Max. Exhaust Permission Restrictions	19 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	LSA 49.3 M6	LSA 47.3 L10	-	LSA 49.3 M6		
Phase / Leads / Connection	3 / 12 / PS	3 / 12 / SS	-	Multi Voltage Selector - 3/3		
P.F.	0,8	0,8	-	0,8	0,8	-
Power @ Temp Rise 125/40 °C	795kVA	825kVA	-	795kVA	915kVA	-
Power @ Temp Rise 105/40 °C	715kVA	750kVA	-	715kVA	825kVA	-
Efficiency @ 100% load	94,40%	94,30%	-	94,40%	94,70%	-
skVA @ 30% Voltage Dip (P.F. = 0.6)	1840kVA	2450kVA	-	1840kVA	2450kVA	-

### Application Data - Circuit Breaker

Genset Voltage	208/120V	480/277V	Multi Voltage
ABB (80% Rated) Breaker Model	2500A	1000A	2500A

### 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

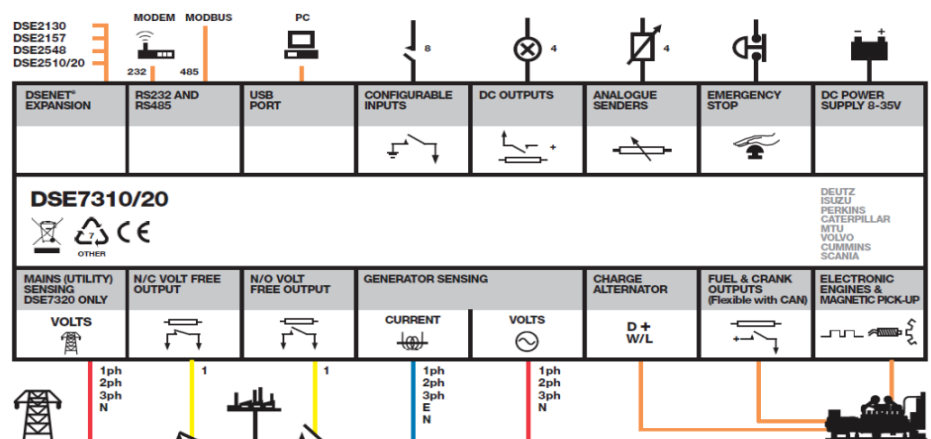
- License free PC software
- 4-Line back-lit LCD text display
- Five key menu navigation
- LCD Alarm Indication
- DSENet expansion compatibility
- Internal PLC editor
- Protection disable feature
- Data logging facility
- Fully configurable via PC
- Front panel configuration
- Power safe mode
- 6 configurable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



# TJT4F700V

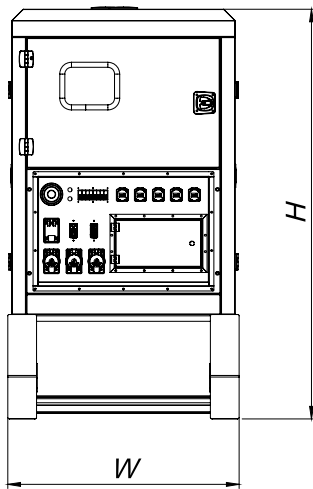
## Industrial Diesel Generator Sets



### Dimensions, Weight & Sound Data

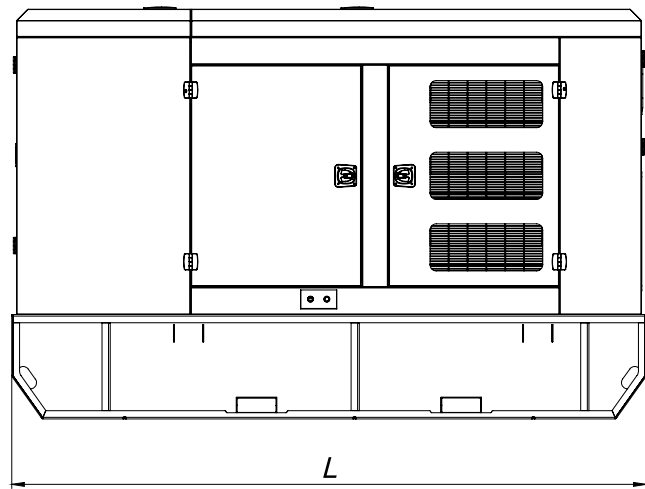
#### Enclosed Genset Data

L (inches)	W (inches)	H (inches)	Weight (lbs)
213.8"	78.7"	100.4"	19250



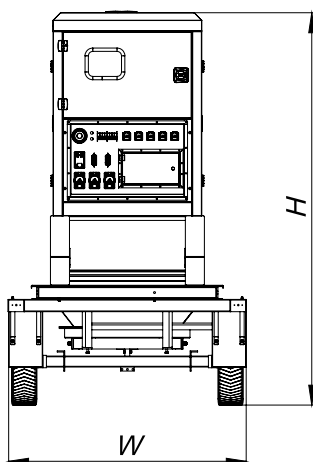
#### Integral Base Tank / DEF Tank

Sound Level	Run Time	Tank Capacity	DEF Capacity
78dBA*	17h	610gal / 2300lt	42.2gal / 160lt



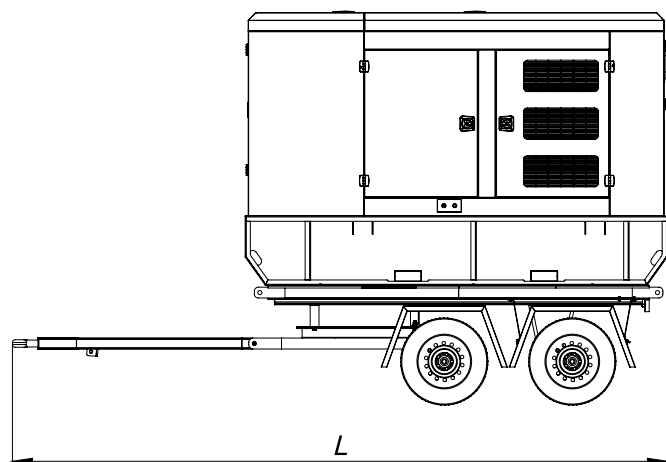
#### Genset w / Trailer Data

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



#### Integral Base Tank / DEF Tank

Sound Level	Run Time	Tank Capacity	DEF Capacity
78dBA*	17h	610gal / 2300lt	42.2gal / 160lt



\*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

- Galvennealed 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
- Paralleling Controller Upgrade
- Motor Operated Breaker

DISTRIBUTED BY:

