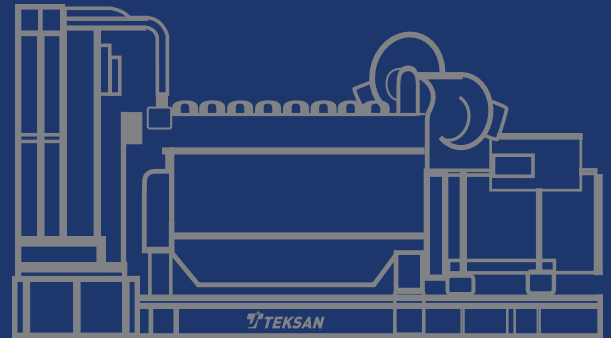


TJUD350P

Industrial Diesel Generator Sets

EPA Certified Tier 3 for Stationary Emergency Applications



Genset Standby Power Rating

125/40 °C Standby Ratings

Alternator Model			TAL0473B	TAL0473A	TAL046H	LSA47.3 S5	LSA47.3 S4	LSA46.3 L11
Voltage	Phase	Pf	kW / A	kW / A	kW / A	kW / A	kW / A	kW / A
480/277V ∟	3	0,8	360 / 541	350 / 526	350 / 526	360 / 541	350 / 526	350 / 526
208/120V ∟	3	0,8	360 / 1249	350 / 1214		360 / 1249	350 / 1214	
240/120V ∟	3	0,8	360 / 1082	350 / 1052		360 / 1082	350 / 1052	
Alternator Model			TAL046H			LSA46.3 L11		
600/347V ∟	3	0,8	350 / 420			350 / 420		

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.

TJUD350P

Industrial Diesel Generator Sets



Standard Features – Engine

EPA Certified Tier 3 – Emergency Stationary Only

Unit Mounted Radiator

Oil and Coolant Drain Extension w/Valve

Fuel – Water Separator Filter

Speed Control to ISO 8528, G2

24V Battery System & Cables

Flex Fuel Connectors

Flex Exhaust Connection

Application Data – Engine

Manufacturer	Perkins
Model	2206D-E13TAG2
Cubic Capacity	12.5 liters
Bore x Stroke	130 mm x 157 mm
Compression Ratio	16.3:1
Aspiration	Turbocharged, air to air charge cooling
Gross Engine Power	406 kW
Net Engine Power	381 kW
BMEP	2171 kPa
Speed Variation at Constant Load	±0.25%
Governor Type	Electronic
Battery Charging Alternator	24V, 70A
Battery Qty, CCA Rating	2 × 102Ah, 860A
Ambient Capacity of Radiator	122 °F (50 °C)
Total Coolant Capacity	51.4 liters
Thermostat Operating Range	87 °C to 98 °C
Combustion Air Flow	26.6 m ³ /min
Exhaust Gas Temp	680 °C
Max Allowable Back Pressure	10 kPa
Total lubricating capacity	40 liters

Fuel Consumption

Standby Power (110% of Prime)	24.6 g/h (94 l/h)
Prime Power (100%)	23.0 g/h (87 l/h)
At 75% of Prime	17.7 g/h (67 l/h)
At 50% of Prime	12.7 g/h (48 l/h)

TJUD350P

Industrial Diesel Generator Sets



Standard Features – Alternator

Brushless Single Bearing

Class H Insulation

Low reactance 2/3 pitch windings

IEC 60034, NEMA MG 1.32-33, ISO8528-3

AREP+ Excitation

Digital Automatic Voltage Regulator

100% of Rated Load – One Step

CSA C22.2 n°100-14, UL 1446 Compliant

Application Data – Alternator

Manufacturer	Leroy Somer
Type	4 Poles, Brushless
Bearing	Single
Protection	IP 23
AVR	D350
Voltage Regulation (**)	± 0.25%
AREP+/PMG Short Circuit Current	TAL:2.7 IN: 10 s / LSA:300% (3 IN): 10 s (*)
One Step Load Acceptance	100% of rated load
Altitude	≤1000 meters
Over Speed	2250 rpm
THD (***) in no-load	< 2%
THD (***) on linear load	< 5%
Waveform: NEMA = TIF (***)	< 50
Waveform: I.E.C. = FHT (***)	< 2%

(*) D350: 10 seconds (**) Steady state (***) Total harmonic distortion between phases, no-load or on-load (non-distorting)

Motor starting (AREP+) Locked rotor kVA at P.F. = 0.6, 480V – 60Hz

Alternator Model	TAL0473B	TAL0473A	TAL046G	LSA47.3 S5	LSA47.3 S4	LSA46.3 L10
%30 Voltage Drop	1600kVA	1000kVA	1020kVA	1750kVA	1520kVA	1050kVA

(-)For a starting P.F. other than 0.6, the starting kVA must be multiplied by $K = \text{Sine P.F.} / 0.8$

(-)For voltages other than 400V (Y), 230V (Δ) at 50 Hz, then kVA must be multiplied by $(400/U)^2$ or $(230/U)^2$.

Application Data – Circuit Breaker

Genset Voltage	480/277V ∟	208/120V ∟	240/120V ∟	600/347V ∟
ABB Breaker Model	XT5N600-600A	XT7S1200-1200A	XT7S1200-1200A	XT5N600-600A

TJUD350P

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
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

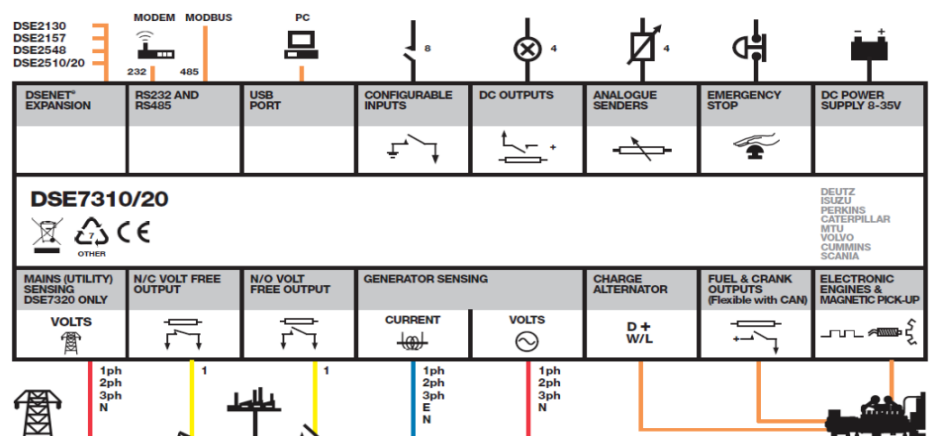
License free PC software
4-Line back-lit LCD text display
Five key menu navigation
LCD Alarm Indication
DSENet expansion compatibility
Internal PLC editor
Protection disable feature
Data logging facility
Fully configurable via PC
Front panel configuration
Power safe mode
6 configurable DC outputs
2 configurable 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 (kWh/kVAh/kVArh)
✓ Power Factor
✓ Generator Current
✓ Generator Load (%)
✓ Earth Current



TJUD350P

Industrial Diesel Generator Sets



Standard Features – General

UL 2200 & cUL Listed

Main Line Circuit Breaker Mounted & Wired

Vibration Isolation Mounts

Aluminized Steel Silencer

NFPA-110, Level 1 Compliant (*)

Jacket Water Heater w/Isolation Valves

Battery Charger & Starter Battery

2 Year / 2000 Hours Standby Warranty

Battery Charger

DSE Model	9470 MKII
Operation Voltage (L-N)	90V to 305V
Output Volts/Current	24V / 10A

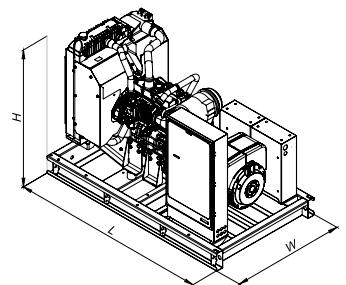
Jacket Water Heater

Hotstart Model	CTM25210-N00
Operation Voltage	240V
Power	2500W

Dimensions, Weights & Sound Levels

Open Set

Fuel Tank Capacity	Run Time (hr)	L in(mm)	W in(mm)	H in(mm)	Weight lbs(kg)
No Tank	-	137" (3480)	69" (1750)	78" (1980)	6,945 (3,150)
600gal	24	161.5" (4100)	69" (1750)	94" (2460)	10,470 (4,750)
1200gal	48	TBA	TBA	TBA	TBA
1800gal	72	TBA	TBA	TBA	TBA



Sound Attenuated Enclosure Level 2

Fuel Tank Capacity	Run Time (hr)	L in(mm)	W in(mm)	H in(mm)	Weight lbs(kg)		Sound Level dBA(**)
					Steel	Aluminum	
No Tank	-	198.8" (5050)	71.1" (1806)	99.2" (2520)	9,655 (4,380)	7,675 (3,480)	TBA
600gal	24	213.5" (5425)	71.1" (1806)	115.7" (2940)	13,350 (6,055)	11,365 (5,155)	
1200gal	48	TBA	TBA	TBA	TBA	TBA	
1800gal	72	TBA	TBA	TBA	TBA	TBA	

Sound Attenuated Enclosure Level 3

Fuel Tank Capacity	Run Time (hr)	L in(mm)	W in(mm)	H in(mm)	Weight lbs(kg)		Sound Level dBA(**)
					Steel	Aluminum	
No Tank	-	TBA	TBA	TBA	TBA	TBA	TBA
600gal	24	TBA	TBA	TBA	TBA	TBA	
1200gal	48	TBA	TBA	TBA	TBA	TBA	
1800gal	72	TBA	TBA	TBA	TBA	TBA	

(*)Generator set meets NFPA-110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.

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

- All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact Teksan for detailed installation drawings

TJUD350P

Industrial Diesel Generator Sets



Available Options

Circuit Breakers

- ☐ Magnetic Trip
- ☐ Thermal Magnetic Trip
- ☐ Electronic Trip LS/I
- ☐ Electronic Trip LSI
- ☐ Electronic Trip LSIG
- ☐ 80% Rating
- ☐ 100% Rating
- ☐ Electrically Operated CB (paralleling)
- ☐ Shunt Trip – wired to controller
- ☐ Auxiliary Contact – volt free contact

Alternator

- ☐ Upsize Alternator
- ☐ Space Heater
- ☐ RTD Sensors

Electrical

- ☐ GFCI Receptacle Outlet
- ☐ Load Center
- ☐ Power Outlet (14–50R, 120/240V, 50A)
- ☐ Power Outlet (TT30R, 120V, 30A)
- ☐ Power Outlet Panel (120/240V, 80A) NEMA5–20R, NEMA14–50R, TT-30R
- ☐ Surge Protector

Control System

- ☐ Remote Annunciator Panel – 8 lights
- ☐ Remote Annunciator Panel – 16 lights
- ☐ Remote Annunciator Panel – 24 lights
- ☐ Common Alarm Relay – V free contact
- ☐ Generator Run Relay – V free contact
- ☐ Control Panel Heater
- ☐ Dry Contacts Expansion Relay
- ☐ Remote E-Stop Switch
- ☐ Remote E-Stop Switch – Break Glass
- ☐ Remote Monitoring (DSE892 SNMP)
- ☐ Remote Monitoring (DSE890 Webnet)
- ☐ Paralleling System Upgrade
- ☐ Manual Voltage Adjust
- ☐ Manual Speed Adjust

Miscellaneous

- ☐ ATS Panel
- ☐ Rated Power Factor Factory Testing
- ☐ Enclosure Heater
- ☐ Oil Pan Heater
- ☐ Spring Isolators
- ☐ Crankcase Ventilation Filter
- ☐ Critical Silencer Set w/Open Skid Unit

Enclosures

- ☐ Sound Attenuated Level 2
- ☐ Sound Attenuated Level 3
- ☐ Enclosure DC light w/timer
- ☐ Enclosure AC light
- ☐ Enclosure Space Heater
- ☐ Motorized Air Inlet Damper
- ☐ Gravity Radiator Louver

Fuel Tank

- ☐ UL142 Listed
- ☐ UL2085 Listed
- ☐ Fuel Level Display on Controller
- ☐ Fuel / Water Separator

Battery System

- ☐ Starting Batteries
- ☐ Battery Charger (NFPA110 Compliant)
- ☐ Battery Wrap Heater
- ☐ Battery Restraint
- ☐ Battery Disconnect Switch

Warranty

- ☐ 5 Years Extended Limited Warranty

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