TJUG275PD

Industrial Gaseous Generator Sets

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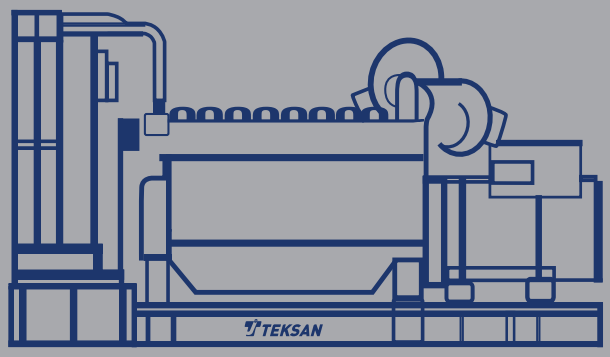

Genset Standby Power Rating

Voltage	208/120V	240/120V	480/277V	600/347V	240/120V
Phase	3	3	3	3	1
Pf	0,8	0,8	0,8	0,8	1
Standby kWe (NG)	275kW	275kW	275kW	275kW	230kW
Standby Amps (NG)	954A	826A	413A	330A	958A
Standby kWe (LP)	200kW	200kW	200kW	200kW	200kW
Standby Amps (LP)	693A	601A	300A	240A	833A
Alternator Model	TAL046G	TAL046G	TAL046E	TAL046E	TAL046H
Temp Rise	125 / 40 °C	125 / 40 °C	125 / 40 °C	125 / 40 °C	125 / 40 °C
Connection	12 Leads WYE	12 Leads Delta	12 Leads WYE	6 Leads WYE	12 Leads DD

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.

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Application Data - Engine

Engine	
Manufacturer	PSI
Model	14.6L
Number of Cylinders	V-8
Cycle	4
Cubic Capacity	14.6 liters
Bore x Stroke	128 mm
Stroke	142 mm
Aspiration	Turbo Charge Air Cooled
Combustion Ratio	10.5:1
Gross Standby Power Rating at the Flywheel - NG	340 kW
Gross Standby Power Rating at the Flywheel - LP	240 kW
Rated rpm	1800
Speed Regulation	±0.5%

Electrical System	
Starting Motor Voltage	24V
Battery Charging Alternator	70A
Battery Qty, CCA Rating	2 x 102Ah, 860A

Fuel System	
Fuel Type	NG, LP Vapor or Dual Fuel
Maximum EPR Rated Pressure	1 psi (6.9 kPa)
Fuel Supply Pressure to EPR	6.8 - 10.9 inH2O
Minimum NG Supply Pipe Size	2 x 1-1/4" NPT
Minimum LPG Supply Pipe Size	2 x 1-1/4" NPT

Air Induction System	
Combustion Air Required	635 cfm
Max. Allowable Intake Air Restriction - Clean	5.0 inH2O
Max. Allowable Intake Air Restriction - Dirty	15.0 inH2O

Fuel Consumption - NG	
Standby Power (100%)	80.0 m3/hr (2825 CFH)
At 75% of Standby	64.0 m3/hr (2260 CFH)
At 50% of Standby	46.0 m3/hr (1625 CFH)

Fuel Consumption - LP	
Standby Power (100%)	26.5 m3/hr (936 CFH)
At 75% of Standby	22.0 m3/hr (777 CFH)
At 50% of Standby	15.5 m3/hr (547 CFH)

Cooling System	
Ambient Capacity of Radiator	122 °F (50 °C)
Coolant Capacity - Engine Only / Total	36 liters / 120 liters
Max External Coolant Friction Head	40 kPa
Fan Power	16 kW
Engine Coolant Flow	525 liters/min
Cooling Fan Air Flow	849 m3/min
Cracking Temperature	71 °C
Full Open Temperature	85 °C

Exhaust System	
Type	Water Cooled Manifold
Turbine Outlet Temperature	1030 °F (554 °C)
Catalyst Dp	5.1 kPa
Maximum allowable Back pressure	10.2 kPa
Exhaust Flow at Turbine Outlet Conditions	58 m3/min

Lubrication System	
Oil Specification	SAE 15W-40 Low Ash Gas engine oil, API CD/CF or higher
Maximum Allowable Oil Temperature	121 °C
Engine Oil Capacity	25 liters

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Standard Features - Alternator

Brushless Single Bearing	AREP Excitation
125/40 °C Temperature Rise	300% Short Circuit Capability
Class H Insulation	Low reactance 2/3 pitch windings
Low waveform distortion with non-linear loads	Self-ventilated and drip-proof construction
EC 60034-1; CEI EN 60034-1; NEMA MG 1.22, NF 51- 100,111	BS 4999-5000; VDE 0530, OVE M-10

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	240/120V	480/277V	600/347V	240/120V
Alternator Model	TAL046G	TAL046G	TAL046E	TAL046E	TAL046H
Leads	12 Leads WYE	12 Leads DELTA	12 Leads WYE	6 Leads WYE	12 – DD
P.F.	0,8	0,8	0,8	0,8	1
Power @ Continuous 40 °C	345kVA / 276kW	345kVA / 276kW	344kVA / 275kW	344kVA / 275kW	231kVA / 231kW
skVA @ 30% Voltage Dip (P.F. = 0.6)	1365kVA	1365kVA	825kVA	530kVA	-
Efficiency @ 100% load	93,70%	93,70%	93,30%	93,32%	89,70%
Short Circuit Current @ 1000ms	1300A	2250A	1000A	1000A	-

Application Data - Circuit Breaker

Genset Voltage	208/120V	240/120V	480/277V	600/347V	240/120V
ABB (80% Rated) Breaker Model	T7S 1000	T7S 1000	T6N 600	T5N 400	T7S 1000
Current Rating (In)	1000A	1000A	600A	400A	1000A
Trip Unit	LS/I	LS/I	LS/I	LS/I	LS/I

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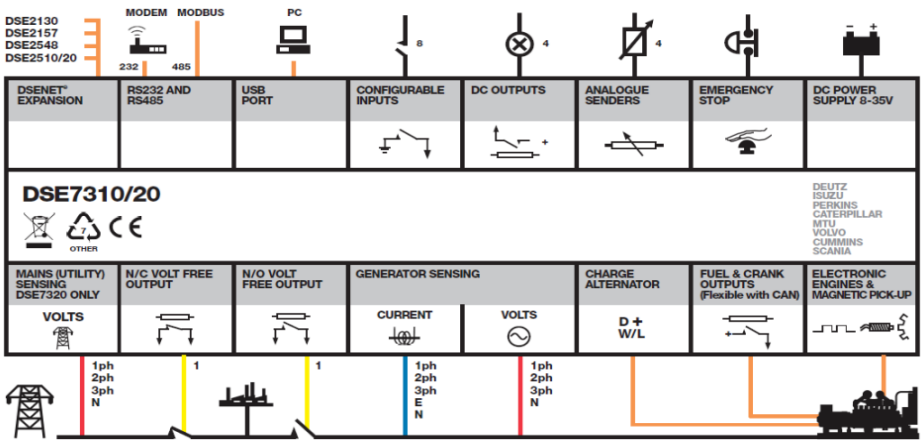
Control Panel

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



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Standard Features - General

Heavy duty structural steel base frame	Critical grade silencer
Battery charger	Battery tray and cables
Jacket Water Heater	Heater Isolation Valves
Oil & Coolant Drain Extensions	Rubber vibration Isolator
Operations Manual	Standby Limited Warranty

Battery Charger

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

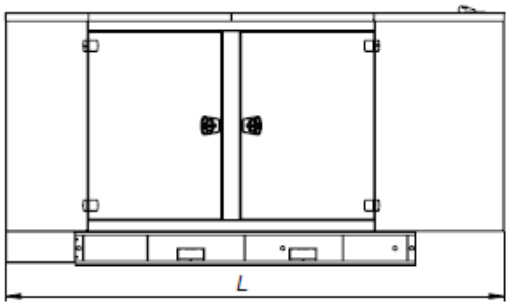
Jacket Water Heater

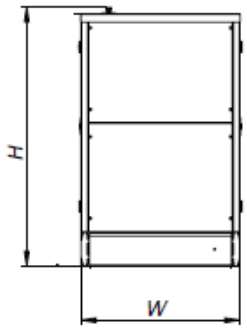
Manufacturer	Hotstart
Model	CTM25210-N00
Operation Voltage	240V
Power	2500W

Dimensions, Weights & Sound Levels

	L x W x H (inches)	Weight (lbs)	Sound Level *
Open Skid	TBA	TBA	-
Level 2 Enclosure	TBA	TBA	TBA
Level 3 Enclosure	TBA	TBA	TBA

*All measurements are approximate and for estimation purposes only. * Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at stand-by power rating





Sound Attenuated Enclosure (Option)

Compatible with 2000/14/EC directives,
Factory built, UL Certified
Amplified paint against corrosion and rust
Exceeds 2000hours salt spray test
Level 2 / 3 Sound Level Compliant
Heavy Duty Steel / Aluminum Structure
High performance sound absorb material
Vertical air discharge
Exhaust muffler inside the canopy

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Available Options

Circuit Brakers

- ☐ 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

- ☐ Dual Fuel Operation
- ☐ Fuel Pressure Low, Alarm
- ☐ Fuel Filter
- ☐ Gas Regulator

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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