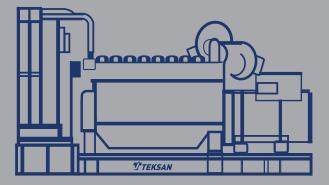
Industrial Gaseous Generator Sets







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)	200kW	200kW	200kW	200kW	200kW
Standby Amps (NG)	693A	601A	300A	240A	833A
Standby kWe (LP)	135kW	135kW	135kW	135kW	135kW
Standby Amps (LP)	468A	405A	202A	162A	562A
Alternator Model	TAL046C	TAL046C	TAL044M	TAL046C	TAL046F
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.

Industrial Gaseous Generator Sets

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Application Data - Engine

Engine	
Manufacturer	PSI
Model	11.1 L
Number of Cylinders	6, Inline
Cycle	4
Cubic Capacity	11.1 liters
Bore x Stroke	123 mm
Stroke	155 mm
Aspiration	Turbo Charge Air Cooled
Combustion Ratio	10.5:1
Gross Standby Power Rating at the Flywheel - NG	235 kW
Gross Standby Power Rating at the Flywheel - LP	155 kW
Rated rpm	1800
Speed Regulation	±0.5%

Electrical System	
Starting Motor Voltage	24V
Battery Charging Alternator	45A
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	7.0 - 11.0 inH20
Minimum NG Supply Pipe Size	2" NPT
Minimum LPG Supply Pipe Size	2" NPT

Air Induction System

Combustion Air Required	448 cfm
Max. Allowable Intake Air Restriction - Clean	5.0 inH20
Max. Allowable Intake Air Restriction - Dirty	15.0 inH20

Fuel Consumption - NG	
Standby Power (100%)	68.9 m3/hr (2431 CFH)
At 75% of Standby	53.4 m3/hr (1887 CFH)
At 50% of Standby	38.0 m3/hr (1342 CFH)

Fuel Consumption - LP Standby Power (100%)

Standby Power (100%)	19.9 m3/hr (705 CFH)
At 75% of Standby	16.4 m3/hr (580 CFH)
At 50% of Standby	11.9 m3/hr (420 CFH)

Cooling System

Ambient Capacity of Radiator	122 °F (50 °C)
Coolant Capacity - Engine Only / Total	25 liters / 105 liters
Maximum Air Restriction Across a Radiator	0.5 inH20
Fan Power	6.7 kW
Engine Coolant Flow	310 liters/min
Cooling Fan Air Flow	510 m3/min
Cracking Temperature	71 °C
Full Open Temperature	85 °C

Exhaust System	
Туре	Water Cooled Manifold
Max Gas Temperature	1382 °F (750 °C)
Standard Catalyst Back pressure	5.1 kPa
Maximum allowable Back pressure	10.2 kPa
Exhaust Volumetric Flow at Rated Power @ 1350 F	1425 cfm

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	25.0 liters

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Industrial Gaseous Generator Sets



Standard Features - Alternator

125/40 °C Temperature Rise

Class H Insulation

Low waveform distortion with non-linear loads

EC 60034-1; CEI EN 60034-1; NEMA MG 1.22, NF 51- 100,111

Application Data - Alternator

Manufacturer					Leroy Somer
Туре				4	Poles, Brushless
Protection					IP 23
Voltage Regulation					± 0.25%
One Step Load Acceptance				10	0% of rated load
Bearing					Single
THD in Linear Load					< 5%
Waveform: NEMA TIF					< 50
Altitude					\leq 1000 meters
Over Speed					2250 rpm
AVR					D350
Genset Voltage	208/120V	240/120V	480/277V	600/347V	240/120V
Alternator Model	TAL046C	TAL046C	TAL044M	TAL046C	TAL046F
Leads	12 - WYE	12 - Delta	12 - WYE	6 - WYE	12 – DD
P.F.	0,8	0,8	0,8	0,8	1
Power @ Continuous 40 °C	250kVA / 200kW	250kVA / 200kW	250kVA / 200kW	260kVA / 208kW	200kVA / 200kW
skVA @ 30% Voltage Dip (P.F. = 0.6)	830kVA	830kVA	640kVA	400kVA	-
Efficiency @ 100% load	91,60%	91,60%	93,40%	92,36%	87,96%
Short Circuit Current @ 1000ms	840A	1455A	700A	840A	-

AREP Excitation

300% Short Circuit Capability

Low reactance 2/3 pitch windings

BS 4999-5000; VDE 0530, OVE M-10

Self-ventilated and drip-proof construction

Application Data - Circuit Breaker

Genset Voltage	208/120V	240/120V	480/277V	600/347V	240/120V
ABB (80% Rated) Breaker Model	T6N 800	T5N 600	T5N 400 - 300	XT4N 250	T7S 1000
Current Rating (In)	800A	600A	300A	250A	1000A
Trip Unit	LS/I	LS/I	LS/I	TMF	LS/I

Industrial Gaseous Generator Sets



Control Panel

Manufacturer
Model
DC Supply
Generator Voltage Range (Ph-Ph)
Generator Frequency Range

Standards

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

Advanced SMS messaging (additional external model required)

Start & Stop capability via SMS messaging

Configurable event log (250)

Multiple date and time scheduler

•
7310 MKII
8 to 35V Continuous
26V to 719V AC
3,5Hz to 75Hz
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

DSE - Deep Sea Electronics

Protections

✓ Gen. Voltage – under / over
✓ Gen. Freq. – under / over
\checkmark Engine Speed – under / over
\checkmark Engine Oil Pressure – low
\checkmark Engine Temp – low / high
\checkmark Battery Voltage – low / high
√ Weak Battery
\checkmark Fail to Start / Stop
✓ Charge Alternator Fail
✓ Over Current & Load (kW/kVAr)
✓ Unbalanced Load
\checkmark 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

DSE2130 DSE2157 DSE2548 DSE2510/20	MODEM MODBUS	PC].	⊗ .	Å.		i i i
DSENET [®] EXPANSION	RS232 AND RS485	USB PORT	CONFIGURABLE INPUTS	DC OUTPUTS	ANALOGUE SENDERS	EMERGENCY	DC POWER SUPPLY 8-35V
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							DEUTZ ISUZU PERKINS CATERPILLAR MTU VOLVO CUMMINS SCANIA
MAINS (UTILITY) SENSING DSE7320 ONLY	N/C VOLT FREE OUTPUT	N/O VOLT FREE OUTPUT	GENERATOR SENS	ING	CHARGE	FUEL & CRANK OUTPUTS (Flexible with CAN)	ELECTRONIC ENGINES & MAGNETIC PICK-UP
VOLTS	ļţ	Ĭ,			D+ W/L	ţ	_~~~ @@@\$
1ph 2ph 3ph N			1ph 2ph 3ph E N	1ph 2ph 3ph N			

Industrial Gaseous Generator Sets



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

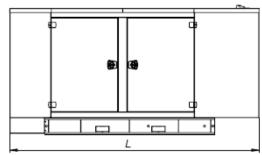
Jacket Water Heater

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	ТВА	TBA	-
Level 2 Enclosure	ТВА	TBA	TBA
Level 3 Enclosure	ТВА	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,
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Factory built, UL Certified

Amplified paint against corrosion and rust

Exceeds 2000hours salt spray test

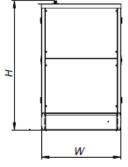
Level 2 / 3 Sound Level Compliant

Heavy Duty Steel / Aluminum Structure

High performance sound absorb material

Vertical air discharge

Exhaust muffler inside the canopy





Industrial Gaseous Generator Sets

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Available Options

Circuit Brakers

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

Alternator

- □ Upsize Alternator
- \Box 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 – Break Glass
Remote Monitoring (DSE892 SNIMP)
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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