Natural Gas Generator Set Data Sheet (01-01-2017)







	Picture for Reference Only										
Gas Generator Set Model:	TCM150XG	Gas Engine Model:	CG6L-8G2	Alternator Model:	Leroy Somer LSA44.3M8						

60Hz	3 Phase	Power Factor:	Emissions Standard	N/A
1800 r.p.m	4 Wires	Cos ⊄ = 0.8	Ellissions Standard	IVA

RATINGS	Prime Power		Standby Power		Rated Current	Remarks
KATINGS	(PRP)		(LTP)		(A)	
Voltage (V)	kW	kVA	kW	kVA	Amps	
380/220	120	150	N/A	N/A	227.9	
416/240	120	150	N/A	N/A	208.2	
440/254	120	150	N/A	N/A	196.8	
480/277	120	150	N/A	N/A	180.4	

Conditions and Defintions:

1) Engine output data under ISO8528/1, ISO3046/1, BS5541/1, DIN6271 conditions.

Genset General Specifications

Gas genset model	TCM150XG	Frequency (Hz)	60
Gas engine model	CG6L-8G2	Speed (rpm)	1800
Electrical output (kW)	120	Speed regulating rate	0-5% Adjustable
Electrical output (kVA)	150	Open type dimension (L×W×H) (mm)	2400×1150×1500
Fuel	Natural gas	Net weight (kg)	1650

Engine Specifications

Manufacturer	Tide Power Technology	Direction of rotation	Counter clockwise from flywheel
Model	CG6L-8G2	Induction system	Turbocharged & Intercooled
Mechanical power	145 kWm	Combustion type	Spark ignition
Speed	1800 rpm	Cooling method	Water cooled
Configuration	In line	Ignition & Speed governor	EXON, electronic
Number of cylinders	6	Oil Consumption	≤0.4g/kW.h
Cycle	4 stroke	Coolant capactiy (engine Only	y) 12 L
Cyliner type	Wet	Oil capacity	24 L
Bore / Stroke	114/135 mm	Gas consumption 100% load	0.33 m3/kW.H
Displacement	8.3 L	Oil grade	15W40-CF4 or above grade
Compression ratio	10.5: 1	Starting method	24V DC motor

Alternator Specifications

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Manufacture / Brand	Leroy-Somer	Prime output power	124kW/155kVA
Model	LSA44.3M8	Insulation class	Н
AVR model	R250	Voltage regulation	± 0,5 %
Coupling / Bearing	Direct /Single bearing	Totale harmonic distortion THD	no load <2% - on load < 5%
Phase	3 Phase	Wave form : NEMA = TIF - (*)	< 50
Power factor	Cos ⊄ = 0.8	Number of wires	12
Winding pitch - code	2/3 - (wdg6)	Altitude	≤ 1000 m
Drip proof	IP 23	Overspeed	2250 min ⁻¹
Excitation	Shunt	Air flow	$0.3 \text{ m}^3/\text{s}$

Control Pannel



- Deepsea 7320 controller
- Digital control panel
- Volts, current, frequency, rpm (instruments)
- Genset running hours
- Battery voltage and charging
- Over speed pre-alarm & shutdown
- High water temp. pre-alarm & shutdown
- Low oil pressure pre-alarm & shutdown
- Low voltage pre-alarm & shutdown
- Overcurrent pre-alarm & shutdown

Standard Features

- High efficient water cooled gas engine with radiator
- Brushless alternators (Class H, with AVR.)
- Heavy duty rubber anti-vibration mountings
- Starter batteries and connecting cables
- Separate engine-drive battery charging alternator
- Industrial silencer for open type generator sets
- Circuit breaker 3 pole (MCCB)
- Low coolant level sensor
- Oil filter Air filter

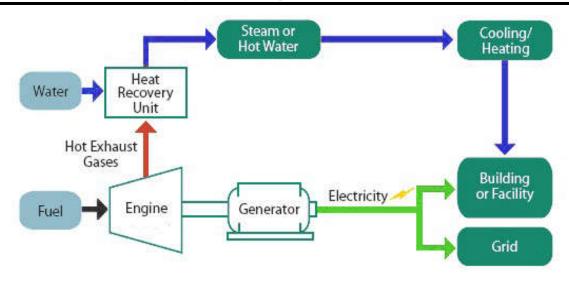
- Fully welded steel baseframe
- Ignition system
- Gas train: mainly Italy Madas gas pressure regulator & gas filter, pressure gauge, electromagnetic valve and fire arrestor and other connection components
- Wiring with IEC standard
- Factory test certificate
- Operation & Maintenance manual & Diagrams
- Worldwide product / Technical support

Optional

- O Automatic Transfer Switch (ATS)
- O Canopy/Enclosure
- O Water heater for severe cold weather
- O Lub-oil heater for severe cold weather
- O Silent containerised
- O Residential silencer
- O Panel for auto synchronization with Mains
- O Extra air filters for time-maintenance
- O Automatic oil supply system

- O Extra oil filters for time-maintenance
- O Parallel cabinet
- Full range of attachments and options available for alternator
- O Flame arrestor in gas train
- O Desulfurization system
- O Gas pretreatment system
- O Dehydration system
- O Genset Comissioning / Testing on site

Combined Heat and Power Systems (Optional)



We offer Combined Cooling Heating and Power (CHP and CCHP) packages for our gas generator sets. It can recover 75%-90% combined electrical and thermal efficiency, resulting in major reductions in your overall energy costs. In the past years we have supplied CHP systems to Germany, Russia,Indonesia etc. We have the experience and capabilities to meet your total energy requirements.

Warranty

The goods of Tide Power Technology are under warranty against defects in materials and workmanship for period 1 year or 1000 hours operation time whichever come first from the date of delivery to the end user (except the damageable spare parts of genset caused by incorrect manmade operation), and that the aforementioned warranty for the same token is back up by the engine & alternator manufactures and their global distributors.