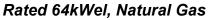
Natural Gas Generator Set Data Sheet (01-01-2017)







Picture for Reference Only							
Gas Generator Set Model:	TCM80G	Gas Engine Model:	CG6L-6G1	Alternator Model:	Leroy Somer LSA44.3S3		

50Hz	3 Phase	Power Factor:	Emissions Standard	N/A
1500 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	64	80	N/A	N/A	121.6	
400/230	64	80	N/A	N/A	115.5	
415/240	64	80	N/A	N/A	111.3	
440/254	64	80	N/A	N/A	105.0	

Conditions and Defintions:

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

Genset General Specifications

Gas genset model	TCM80G	Frequency (Hz)	50
Gas engine model	CG6L-6G1	Speed (rpm)	1500
Electrical output (kW)	64	Speed regulating rate	0-5% Adjustable
Electrical output (kVA)	80	Open type dimension (L×W×H) (mm)	2200×1000×1400
Fuel	Natural gas	Net weight (kg)	1400

Engine Specifications

Manufacturer	Tide Power Technology	Direction of rotation	Counter clockwise from flywheel
Model	CG6L-6G1	Induction system	Turbocharged
Mechanical power	80 kWm	Combustion type	Spark ignition
Speed	1500 rpm	Cooling method	Water cooled
Configuration	In line	Ignition & Speed governor	EXON, electronic
Number of cylinders	6	Oil Consumption	≤0.4 g/kW.h
Cycle	4 stroke	Coolant capactiy (engine Only	/) 11 L
Cyliner type	Wet	Oil capacity	16 L
Bore / Stroke	102/120 mm	Gas consumption 100% load	0.33 m3/kW.H
Displacement	5.9 L	Oil grade	15W40-CF4 or above grade
Compression ratio	10.5: 1	Starting method	24V DC motor

Alternator Specifications

50HZ/1500R.P.I

Manufacture / Brand Leroy-Somer		Prime output power	64kW/80kVA
Model	LSA44.3S3	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	0.25m ³ /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

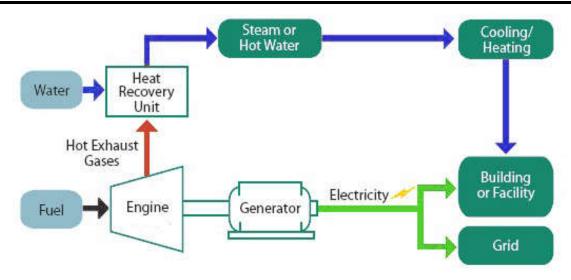
- Fully welded steel baseframe
- Ignition system
- Gas train: mainly Italy Madas gas pressure regulator & gas filter, pressure gauge, electromagnetic valve and fire arrestor and other connection components
- Wiring with IEC standard
- Factory test certificate
- Operation & Maintenance manual & Diagrams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