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



Rated 160kWel, Natural Gas

				Pi	cture for Reference Only
Gas Generator Set Model:	TCM200G	Gas Engine Model:	CG6L-9G1	Alternator Model:	Leroy Somer LSA46.3S3
50Hz 1500 r.p.m		hase /ires	Power Factor: $Cos \ \ = 0.8$	Emissions Standard	N/A

RATINGS	Prime Power		Standby Power		Rated Current	Remarks
	(PRP)		(LTP)		(A)	
Voltage (V)	kW	kVA	kW	kVA	Amps	
380/220	160	200	N/A	N/A	303.9	
400/230	160	200	N/A	N/A	288.7	
415/240	160	200	N/A	N/A	278.2	
440/254	160	200	N/A	N/A	262.4	

Conditions and Defintions:

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

Genset General Specifications

Gas genset model	TCM200G	Frequency (Hz)	50
Gas engine model	CG6L-9G1	Speed (rpm)	1500
Electrical output (kW)	160	Speed regulating rate	0-5% Adjustable
Electrical output (kVA)	200	Open type dimension (L×W×H) (mm)	3000×1200×1550
Fuel	Natural gas	Net weight (kg)	2200

Engine Specifications

anufacturer	Tide Power Technology	Direction of rotation	Counter clockwise from flywheel
odel	CG6L-9G1	Induction system	Turbocharged & Intercooled
chanical power	176kWm	Combustion type	Spark ignition
ed	1500 rpm	Cooling method	Water cooled
guration	In line	Ignition & Speed governor	EXON, electronic
r of cylinders	6	Oil Consumption	≪0.4g/kW.h
	4 stroke	Coolant capactiy (engine Only	/) 11 L
•	Wet	Oil capacity	27.6 L
ke	114/145 mm	Gas consumption 100% load	0.33 m3/kW.H
nt	8.9 L	Oil grade	15W40-CF4 or above grade
sion ratio	10.5: 1	Starting method	24V DC motor

Alternator Specifications

50HZ/1500R.P.M

Manufacture / Brand	Leroy-Somer	Prime output power	160kW/200kVA
lodel	LSA46.3S3	Insulation class	Н
VR model	R250	Voltage regulation	± 0,5 %
oupling / Bearing	Direct /Single bearing	Totale harmonic distortion THD load < 2.5% - on load < 2.5%	
nase	3 Phase	Wave form : NEMA = TIF - (*)	< 50
ower factor	Cos ⊄ = 0.8	Number of wires	12
nding pitch - code	2/3 - (wdg6)	Altitude	≤ 1000 m
ip proof	IP 23	Overspeed	2250 min ⁻¹
citation	Shunt	Air flow	0.48m 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

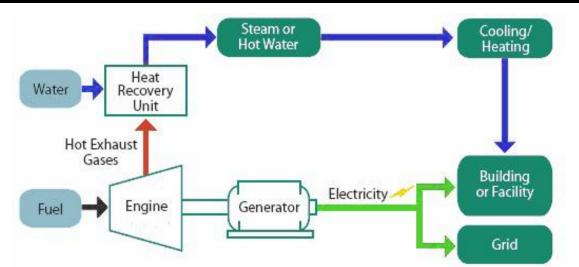
- Fully welded steel baseframe
- Ignition system
- Gas train: mainly Italy Madas gas pressure regulator & gas filter, pressure gauge, electromagnetic valve and fire arrestor and other connection components
- Wiring with IEC standard
- Factory test certificate
- Operation & Maintenance manual & Diagrams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

Optional

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

- \bigcirc Extra oil filters for time-maintenance
- O Parallel cabinet
- \odot Full range of attachments and options available
 - for alternator
- \bigcirc Flame arrestor in gas train
- Desulfurization system
- \bigcirc Gas pretreatment system
- Dehydration system
- 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.