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







Picture for Reference Only					
Gas Generator Set Model:	TCM375G	Gas Engine Model:	CG6L-19G	Alternator Model:	Leroy Somer LSA47.2S4

50Hz	3 Phase	Power Factor:	Emissions Standard	N/A
1500 r.p.m	4 Wires	$Cos \ \mathscr{C} = 0.8$	Ellissions Standard	IWA

RATINGS	Prime Power		Standby Power		Rated Current	Remarks
KATINGS	(PRP)		(LTP)		(A)	
Voltage (V)	kW	kVA	kW	kVA	Amps	
380/220	300	375	N/A	N/A	569.8	
400/230	300	375	N/A	N/A	541.3	
415/240	300	375	N/A	N/A	521.7	
440/254	300	375	N/A	N/A	492.1	

#### **Conditions and Defintions:**

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

## Genset General Specifications

Gas genset model	TCM375G	Frequency (Hz)	50
Gas engine model	CG6L-19G	Speed (rpm)	1500
Electrical output (kW)	300	Speed regulating rate	0-5% Adjustable
Electrical output (kVA)	375	Open type dimension (L×W×H) (mm)	4000×1550×2000
Fuel	Natural gas	Net weight (kg)	4000

### **Engine Specifications**

Manufacturer	Tide Power Technology	Direction of rotation	Counter clockwise from flywheel
Model	CG6L-19G	Induction system	Turbocharged & Intercooled
Mechanical power	340 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	≤0.6 g/kW.h
Cycle	4 stroke	Coolant capactiy (engine Only	y) 30 L
Cyliner type	Wet	Oil capacity	50 L
Bore / Stroke	159/159 mm	Gas consumption 100% load	0.33 m3/kW.H
Displacement	18.9 L	Oil grade	15W40-CF4 or above grade
Compression ratio	11:01	Starting method	24V DC motor

## **Alternator Specifications**

#### 50HZ/1500R.P.M

Manufacture / Brand	Leroy-Somer	Prime output power	328kW/410kVA
Model	LSA47.2S4	Insulation class	Н
AVR model	R250	Voltage regulation	± 0,5 %
Coupling / Bearing Direct /Single bearing		Totale harmonic distortion THDno load < 1.5% - on load < 2%	
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 <sup>-1</sup>
Excitation	Shunt	Air flow	0.9m <sup>3</sup> /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

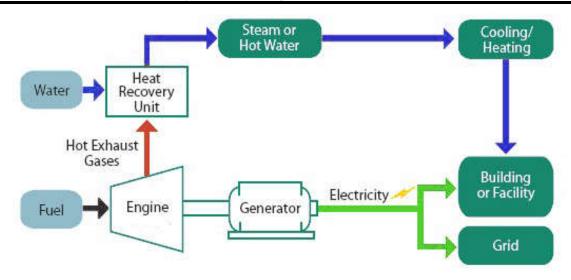
- Fully welded steel baseframe
- Ignition system
- Gas train: mainly Italy Madas gas pressure regulator & gas filter, pressure gauge, electromagnetic valve and fire arrestor and other connection components
- Wiring with IEC standard
- Factory test certificate
- Operation & Maintenance manual & Diagrams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