

Industrial Gas Generators

Technical Data QVT 250 Generating set

Basic technical data	
Engine Manufacture	QVT
Engine Model	Q6.13 TASI
Number of cylinders	6
Cycle	Four stroke
Induction system	Turbo Aftercooled
Compression ratio	12.5:1
Bore	130 mm (5.12 in)
Stroke	160 mm (6.30 in)
Cubic capacity	12.7 litres
Direction of rotation (view from front)	Clockwise
Firing order	1, 5, 3, 6, 2, 4
Lube oil consumption at full load	0.03 kg/h
Alternator Manufacture	Leroy Somer
Alternator Model	LSA 46.3 L11
Phase	3 Phase
Voltage	400V
Assumed Power factor	0.8



Dimensions and Connections

Gas Connection (NG) Gas Connection (BG, Low pressure) Gas Connection (BG, High pressure,	1" BSP 2" BSP
Quick-release)	
Overall dimensions	
Height	2500 mm
Length	4440 mm
Width	1350 mm
Weight	4200kg(approx.)

If the engine is to operate in ambient conditions other than those of the test conditions, suitable adjustments must be made for the changes. For full details, contact QES or KVT

General installation	Units			50 Hz					60 Hz						
Fuel Type	-			NG			BG (55% CH ₄)			NG			BG (55% CH4)		
Electrical output COP / Consumption 100%	kWe	kVA	M3/h	256	320	75	220	275	112	285	357	84	245	306	124
Electrical output COP / Consumption 75%	kWe	kVA	M3/h	192	240	58	165	206	86	214	267	64.7	184	230	96
Electrical output COP / Consumption 50%	kWe	kVA	M3/h	128	160	41	110	137	61	143	179	45.4	123	154	68
Exhaust gas outlet temperature (approx.)	°C			600			630			630			650		
Voltage	V			400 400			480			480					
Power factor	pf			0,8		0,8		0,8			0,8				
Current	A			462 397			430			369					
Actual alternator efficiency	%			95.8 95.8			95.8			95.8					





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Construction

· Rigid base frame made of profiled steel.

• Direct coupled engine and generator assembly with flexible drive plate.

Engine generator assembly flexibly mounted on the base frame.

· · Electrical equipment installed in a sheet steel cabinet that forms an integral part of the canopy.Air movement within the canopy controlled by a engine driven fan.All connection points at one end of the canopy.

• Primary exhaust silencer mounted within the canopy with a vertical exit at the end.

Canopy

Highly effective sound enclosure in packs of sheet steel construction, powder coated. Air passages acoustically lined and waterproof.

Exhaust System

· Steel mounted within the canopy.

• The lubrication system comprises a wet sump system with full flow oil pump.

Control Panel

• Sheet metal enclosure mounted within and forming an integral part of the canopy (1000x800x210mm). PLC based system enables auto and manual control for start/stop, voltage control, mains synchronization, load control, Remote control Data access through Ethernet, HMI graphic interface to view and set parameters.

Engine control

· Start/stop, engine speed control, monitoring for engine coolant inlet and outlet temperatures and exhaust temperature.

Alternator control

Control of the alternator mounted AVR for voltage output, power output and Power Factor.

Emergency stop Canopy mounted push button and external link.

Emissions

Standard 3 way catalyst
NOx emission <10 mg/Nm³









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