

**Q6.6TSI**  
**Spark Ignited Gas Engine**  
**67 kWm / 67kWm**

Designed and developed in the UK, to meet the requirements of our customers for a reliable and robust source of cleaner power. The Quantum engine range offers high efficiency in the 30 – 89 kW power band. Available for use with Natural gas, CNG and LPG. Quality, Reliability and Durability, are the main design features of the Quantum engine range, to meet the high standards demanded by customers. Clean burning fuel, leads to lower servicing costs and extended engine life. Excellent product service and support is available through a network of distributors and dealers.

**Basic Technical Data**

Number of Cylinders:	6
Cylinder arrangement:	Vertical, in line.
Cylinder:	4 Stroke
Induction system:	Turbocharged
Combustion system:	Spark Ignited
Cooling system:	Liquid Cooled
Bore:	100mm
Stroke:	127mm
Displacement:	5.99 Litres
Compression ratio:	11.6:1
Direction of rotation:	Anti-clockwise, viewed on flywheel
Firing order:	1,5,3,6,2,4
Total weight (dry):	690kg

Engine Speed	Operation	Output at Flywheel kWm	Typical Genset Power Output			
			Natural Gas		LPG	
			kVA	kWe	kVA	kWe
1500 RPM	COP	67	77	62	69	55
1800 RPM	COP	67	79	63	68	54

## Standard scope of supply

### Air intake system

- Medium duty paper element air cleaner with restriction indicator ducted to inlet on the turbocharger.

### Ignition system

- High energy type with one coil per cylinder.
- Timing disc and sensor. H.T. leads and spark plugs.

### Gas system

- Air/fuel mixer

### Lubrication system

- Gear type oil pump. Spin on oil filter.
- Plate type oil cooler. Crankcase vented to atmosphere.
- Wet sump with dipstick and oil filler.

### Cooling System

- Thermostatically controlled cooling system with gear driven circulating pump.
- Belt driven "pusher" cooling fan.
- Radiator designed for operation in 50 deg C. ambient complete with piping and guards.

### Exhaust system

- Cast iron exhaust manifold.
- Vertical exhaust outlet on Turbocharger

### Governing System

- Electronic system.

### Electrical System

- 12 volt starter motor and battery charging alternator

### Drive system

- High inertia flywheel to SAE J620 size 10/11.5. SAE 3 housing.

### Engine protection system

- High coolant temperature and low oil pressure switches

Overspeed protection via ignition system.

### Engine mountings

- Front engine mounting feet only.

### Finish

- Clear lacquer finish.
- Despatched on wooden transportation skids and enclosed in a polythene bag.

### Literature

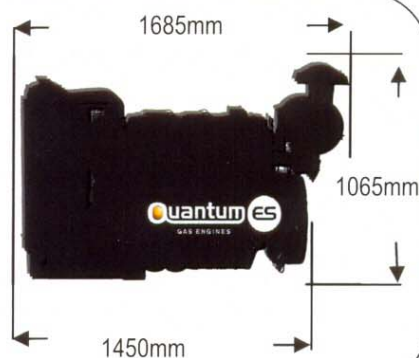
- User's handbook

## Optional Equipment

- Mains coolant heater to aid cold starting.
- Low coolant level switch
- Engine mounted 'vapouriser' for liquid fuel feed LPG engines



- Final weights & dimensions will depend on completed specification
- All illustrations are generic and unsuitable for installation purposes



Distributed by

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