



1006G-DSG36M1 GENERATING SET



Performance

Engine speed rev/min	Type of operation	Output rating kVA
1500	Prime power	61.5
	Standby power	67.6



All ratings based on operation under ISO 3046 condition using typical fan sizes and drive ratios. For operation outside of these conditions please consult with Motorsazan company. Performance tolerance quoted by Motorsazan is $\pm 5\%$.

Electrical ratings assume a power factor of 0.8 and a generator efficiency of 90%.

Fuel specification: BS2869 Part 2 1998 Class A2 or ASTM D975 D2.

Rating Definitions:

Prime power: Power available at variable load in lieu of main power network. An overload of 10% is permitted for one hour in every twelve hours of operation.

Standby power: Power available at variable load in the event of a main power network failure. No overload is permitted.

Standard specifications

Engine:

Make: Motorsazan
Model: Perkins 1006.6
Air filter: mounted air filter
Fuel system: rotary fuel injection pump, mechanical governing, twin cartridge fuel filter and prefilter
Lubrication system: flat cast iron oil-sump with filler and dipstick, spin on full-flow oil filter
Cooling system: gear driven circulating pump, 20" belt driven fan, mounted radiator and pipework
Number of cylinders: 6
Cylinder arrangement: vertical, in line
Cycle: 4 stroke
Induction system: naturally aspirated
Cubic capacity: 5.985 litres (364.9 cu-in)
Bore: 100 mm (3.937 in)
Stroke: 127 mm (5 in)
Compression ratio: 16.5:1
Direction of rotation: Clockwise viewed from front
Firing order: 1,5,3,6,2,4
Total lubrication system capacity: 17 litres
Coolant capacity (including radiator): 27 litres
Genset total weight (dry): 1311 kg
Genset total weight (wet): 1352 kg

Alternator:

Make: AVK/MN
Model: DSG 36 M1- 4, double bearing, self-regulating, brushless, 4 Poles, 68kVA, 50Hz, 400V

Chassis:

Modular, durable design, made from 200 and 140mm channel beams and rubber mountings.

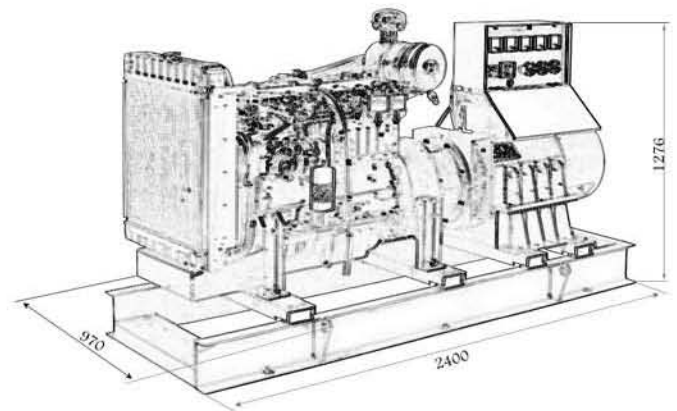
Coupling:

Flexible rubber coupling accurately aligned with application of housing adaptor.

Control panel:

Manual Deepsea PLC Model 701 HC
 Safety shut down on low oil pressure, high coolant temperature and engine over speed
 Ammeters
 Voltmeter with 7 position selector switch
 Frequency meter
 Hour counter
 Engine oil pressure gauge
 Engine oil coolant temperature gauge
 Charge alternator current ammeter
 Emergency stop push button
 Special rubber mountings to minimize vibration
 1.5 mm sheet metal case, electrostatically painted, including lockable auxiliary protection door

Fuel consumption litres / hour	
Power rating	1500 rev/min
Standby power	16
Prime power	14.5
75% of prime power	11.4
50% of prime power	8.1
25% of prime power	5.3



All dimensions are in mm

Factory address: P.O.BOX 51845-337 Tabriz-Iran
 Tel: +98(411) 4248000
 Fax: +98(411) 4245945-46
 Website: www.motorsazan.ir
 Email: mail@motorsazan.ir

- The illustrations may include some optional equipments.
- Motorsazan reserves the right to modify product specification without prior notice.