



Perkins

Image for illustrative purposes only..

0)	
Prime	Standby
800 KVA	880 KVA
640 KW	704 KW
	Prime 800 KVA

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Model Governing Type Electronic Number of Cylinders Cylinder Arrangement Bore and Stroke mm Displacement / Cubic Capacity litres Induction System Cycle Combustion System Compression Ratio Cooling System Frequency and Engine Speed Frequency and Engine Power kW (hp) Fuel Consumption © 50% load L/hr @ 75% load L/hr @ 100% load L/hr Induction System Capacity litres Induction System Standby Induction System Prime Standby Fuel Consumption © 50% load L/hr @ 100% load L/hr @ 100% load L/hr @ 100% load L/hr Induction System Capacity litres Induction System Capacity lit	Engine Make	Pel	rkins
Number of Cylinders 6 Cylinder Arrangement Vertical in line Bore and Stroke mm 160 x 190 Displacement / Cubic Capacity litres 22.921 Induction System Turbocharged and air to air charge cooled Cycle 4 stroke Combustion System Direct Injection Compression Ratio 13.6:1 Rotation Anti-clockwise, viewed on flywheel Cooling System Water - cooled Frequency and Engine Speed 50Hz & 1500rpm Prime Standby Gross Engine Power kW (hp) 705 (945) 786 (1054) Fuel Consumption @ 50% load L/hr 90 - @ 75% load L/hr 130 - @ 100% load L/hr 172 194 Total Lubrication System Capacity litres 113.4 113.4 Total Coolant Capacity litres 105 105 Boost Pressure Ratio 3.5 3.8 Exhaust Temperature: °C 500 500 Radiator Cooling Air Flow: m³/min 69 73	Engine Model	4006 -	23TAG3A
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Radiator Cooling Air Flow (Min): m³/sec 20 20 Combustion Air Flow: m³/min 69 73	Boost Pressure Ratio	3.5	3.8
Combustion Air Flow: m³/min 69 73	Exhaust Temperature: °C	500	500
	Radiator Cooling Air Flow (Min): m ³ /sec	20	20
Exhaust Gas Flow: m³/min 193 193	Combustion Air Flow: m ³ /min	69	73
	Fyhaust Gas Flow: m3/min		400
Fuel Tank Capacity: litres N/A N/A	Exhaust dus How. III /IIIII	193	193

ALTERNA	TOR DATA	
Make	Stamford / Lei	oy Somer
Model	HCI634G1 /	TAL 049C
No. of bear	ings	1
Insulation (class	Н
Total Harm	onic Content	<2%
Wires		12
Ingress Pro	tection	IP23
Excitation S	System	SHUNT
Winding Pi	tch	2/3 (n° 6)
AVR Model		R250
Overspeed		2250 mn ⁻¹
Voltage Re	gulation (steady)	± 0.5%
Short Circu	it Capacity	-

CONTROL PANEL	
Make	Deep Sea
Model	7000 Series

The **DSE 7000 Series** is an Auto Start Control Module for single genset applications. It includes a backlit LCD display which clearly shows the status of the engine all the times. This module can either be programmed using the front panel or by using the DSE configuration suite PC software.

Metering and Alarm indications:

- Generator frequency
- Underspeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Fuel level (Warning or shutdown) Optional
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Loss of magnetic pick-up signal Optional
- Low DC voltage
- · CAN diagnostics and CAN fail/error

STANDARD SPECIFICATIONS

1. ENGINE

Perkins four stroke heavy duty high performance industrial type diesel engine.

2. ENGINE FILTRATION SYSTEM

- · Cartridge type dry air filter.
- Two Cartridge type fuel filters.
- Full flow lube oil filter.

All filters have replaceable elements.

3. COOLING RADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors)

4. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level 14 (dB)

Maximum allowable back pressure 7.0 (kPa)

5. CIRCUT BREAKER TYPE

ABB 3 pole MCCB. (4 pole is optional)

6. FUEL SYSTEM

The baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

7. ALTERNATOR

7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
- Heavy coat of antitracking varnish additional protection against moisture or condensation.

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at $\pm 0.5\%$. Nominal adjustment by means of a trim pot incorporated on the AVR.

7.3 MOTOR STARTING

An overload capacity equivalent to 300% of the Full Load impedance at zero Power Factor can be sustained for 10 seconds, when AREP or PMG option is fitted.

8. MOUNTING ARRANGEMENT

8.1 BASE FRAME

The complete Generating Set is mounted as a whole on a heavy duty fabricated steel Baseframe.

8.2 COUPLING

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

8.3 ANTI-VIBRATION MOUNTING PADS

Anti-Vibration pads are affixed between the Engine / Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

8.4 SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

STANDARD REFERENCE CONDITIONS

Prime Power

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. 10% overload power is available for 1 hour in 12 hours continuous operation.

Standby Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

DIMENSIONS AND WEIGHT Length cm Width cm Height cm Weight* kg (wet) 430 174 215 6370

9. FACTORY TEST

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.

10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

11. DOCUMENTATION

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning / Fault Finding instruction leaflets are accompanied with the Generator.

12. QUALITY STANDARDS

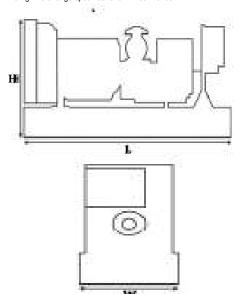
The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

13. WARRANTY

All of the Generating Sets are covered under a warranty policy for a period of 12 months. Warranty of the equipment is in line with manufacturers warranty terms & conditions.

(check warranty statement for more details, as it may vary for different countries)

In line with continuous product development, we reserve the right to change specifications without notice.



Dealer contact details:



Engineering & Services

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