GHASSAN ABOUD
CVD

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V378KVA9 GENSET

Generating Set Powered By VOLVO PENTA STAMFORD

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz /400V	302KWe / 378KVA	331KWe / 414KVA

Genset Specifications

Engine Make & Model	**Volvo Penta** TAD1343GE
Origin	SWEDEN
Alternator Type	**Stamford** HCI444F
Control Panel	Deap Sea - 7310
Circuit Breaker Type	3 Pole MCCB
Tropical Cooling System	55°C
Fully Electronic with Volvo Penta EMC2	
Emission Compliant	
CANBUS SAEJ1939 Interface	

Fuel System	50%	75%	100%
1500rpm, 50 Hz	38.69	56.04	74.28

International Standards

Engine confirm to ISO 9001:2000, ISO 1400, ISO 10054, ISO 3046, BS 5514, DIN 6271. Alternator confirm to ISO 9001, ISO 14001, BS EN 60034, BS 5000, VDE 0530, NEMA MG32-1, IEC34 CSA C-22.2100, AS 1359, BS 1 6861, B En -6-610002:2001

ISO 9001 BUREAU VERITAS Certification — UKAS QUALITY MANAGEMENT

RATING GUIDELINES

PRIME POWER rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A10 % overload capability for govering purpose is available for this rating.

MAXIMUM STANDBY POWER rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating. **1 hp = 1 kW x 1.36**

Engine Technical Data

No. of Cylinders / Alignment	6 / In Line
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Electronic
Bore, mm	131
Stroke, mm	158
Displacement,l	12.78
Compression Ratio	18.1:1
Starting	24V Electric
Alternators, Amps	24V/80A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440
Protection	IP23
Temperature Rise,°C	125/40
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

Dimensions (m) & Weights (kg)

	L(m)	W(m)	H(m)	Weight(kg)	Tank Capacity(L)
Open	3.24	1.13	1.80	3230	405
Enclosed	4.5	1.43	2.2	4780	533

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Performances	1500rpm
Alternator Efficiency	93.4%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	 442(325) 484(356)
Alternator Prime Power, KWe	 320

Lubrication System	1500rpm
Oil Consumption (l/hr) Prime Power	 0.04
Oil Sump Capacity,l	30
Oil System Capacity Include Filters, l	36

Cooling System	1500rpm
Heat Radiation from Engine and Alternator, Power KW (Standby)	13
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	152
Radiator Cooling Air Flow, m^3/s	6.8
Coolant Capacity, l	44

Intake & Exhaust System	1500rpm
Air Flow Combustion at Standby Power, m^3/min(cfm)	954(27)
Heat Rejection Exhaust at Standby Power, KW	236
Exhaust Gas Temperature at Standby °C	420
Max Allowable Back Pressure in Exhaust Line, Kpa	10
Exhaust Gas Flow at Standb y Power, m^3/min(cfm)	2119(60)

Accessories

Oil Drain Pump	**Standard Silencer**
Stainless Steel Flexible	**Anti-Vibration Pads**
Genuine Oil (Volvo Penta)	**Volvo Penta 'Ready Mix'**

Control Panel Readings

- AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
- Low oil pressure, high water temparature, boost pressure and temperature, KW, KWh, KVA, KVAR, fuel consumption, relative load
- Oil pressure, water temparature, low oil level, high oil temperature
- DC alternator failure, over speed, over crank (Fail to start), over under voltage, over under current, any sensor failure
- Low coolant level - Configurable inputs & outputs
- Upgradable for GSM network connection, Signal SMS messages.

Optional Equipment

• Engine

-Coolant heater
-Oversize batteries
-Extra fuel pre-filter water separator
-Battery disconnector switch

• Alternator

-Permanent magnet generator (PMG)
-Upgrade to 3 phase sensing AVR
-Qadrature droop kit
-Anti-condensation heater
-Air inlet filters

• General

-Upgrade to modular controller for paralleling
-Upgrade to 4 pole circuit breaker
-Battery charger
-Automatic transfer switch
-Fuel level switch High / Low for alarm and control
-Fuel transfer pump Automatic / Manual
-Residential grade silencer
-Weather protective and acoustic enclosure.

Spare Parts Kit (Optional)	Genuine -Volvo Penta
Oil filter, full flow	(2)
Oil filter, bypass	(1)
Fuel filter water separator	(1)
Fuel filter	(1)
Air filter	(1)
Fan belt set	(1)
Coolant filter	(1)
Alternator belt set	(1)