GHASSAN ABOUD
CVD

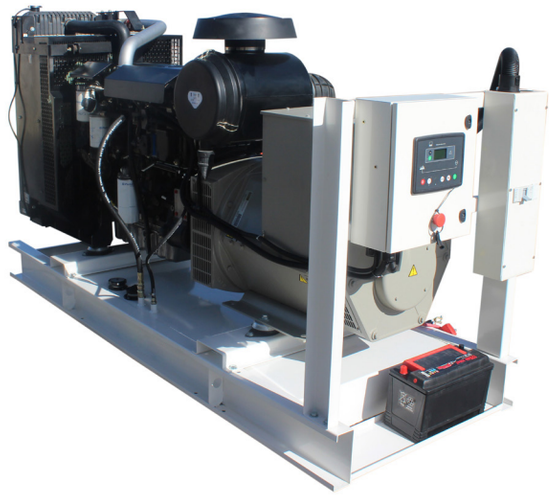


Image for illustration purposes only

P400KVA9 GENSET

Generating Set Powered By Perkins STAMFORD

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz /400V	280KWe / 350KVA	320KWe / 400KVA
1800rpm, 60 Hz /440V	-	-

Genset Specifications

Engine Make & Model	**Perkins** 2206A-E13TAG3
Origin	USA
Alternator Type	**Stamford** HCI444F
Control Panel	Deap Sea - 7310
Circuit Breaker Type	3 Pole MCCB
Tropical Cooling System	
Electronic Governor	
Turbocharged	
Exceptional Power to Weight Ratio	

Fuel System	50%	75%	100%
1500rpm, 50 Hz	42	62	81
1800rpm, 60 Hz	-	-	-

*Prime Power (l/hr)

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

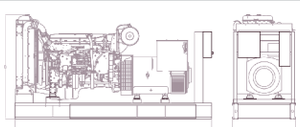
No. of Cylinders / Alignment	6 / In Line
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	130
Stroke, mm	157
Displacement,l	12.5
Compression Ratio	16.3:1
Starting	24V Electric
Alternators, Amps	24V/70A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440
Protection	IP23
Temperature Rise,°C	125
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)
3.35	1.15	2.10	2760	405



P400KVA9 GENSET

Generating Set Powered By Perkins STAMFORD

Performances	1500rpm	1800rpm
Alternator Efficiency	92.4%	-
Engine Power		
Prime Power, KWm(hp)	468(349)	-
Standby Power, KWm(hp)	526(392)	-
Alternator		
Prime Power, KWe	321	-

Lubrication System	1500rpm	1800rpm
Oil Consumption (l/hr) Prime Power	0.15% of fuel consumption at full load	
Oil Sump Capacity,l	38	
Oil System Capacity Include Filters, l	40	

Cooling System	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW (Standby)	32.2	-
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	128.5	-
Radiator Cooling Air Flow, m^3/s (cfm)	23095(654)	-
Coolant Capacity, l	51.4	-

Intake & Exhaust System	1500rpm	1800rpm
Air Flow Combustion at Standby Power, m^3/min(cfm)	833.41(23.6)	-
Heat Rejection Exhaust at Standby Power, KW	245.3	-
Exhaust Gas Temperature at Standby °C	630	-
Max Allowable Back Pressure in Exhaust Line, Kpa	-	-
Exhaust Gas Flow at Standb y Power, m^3/min(cfm)	2288.34(64.8)	-

Accessories

Oil Drain Pump	**Anti-Vibration Pads**
Stainless Steel Flexible	**Battery Disconnector Switch**
Standard Silencer	**Fuel Tank Base Frame for 8hrs**

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

• 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 - Perkins
Oil filter, full flow	(2)
Fuel filter	(1)
Fuel pre-filter water separator	(1)
Air filter	(1)
Fan belt set	(1)
Alternator belt set	(1)