

Mechanical Power driven by SPerkins

- Manufactured in facilities certified with ISO 9001:2015, ISO 14001:2015 & OHSAS
- 18001:2007.
- Manufactured in accordance to 8528-1 to 12.
- Engine performance according to ISO 3046, BS 5514, DIN 6271.
- Alternator performance according to NEMA-MG1, BS 5000, DIN EN, relevant ISO, IEC60034.
- Breaker complies with IEC 60947-2.





INFO@HPI-SA.COM I WWW.HPI-SA.COM



PI 624P

POWERED BY 🍪 Perkins

Industrial Generating Set

MODEL rpm / Hz		VOLTAGE	PRIME ⁽¹		STANDBY ⁽²⁾	
PI 624P 1800 / 60		480 / 277	569 kVA / 455.2	kWe	624 kVA / 499.2 kWe	
ENGINE SPECIFICATIONS			FUEL SYSTEM			
Rated Output (PRP) ⁽¹⁾		519 kW _m	Fuel Filter: Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator			
Rated Output (ESP) (2)		568 kW _m	Recommended Fuel		Class A2 Diesel	
Engine Make & Model		Perkins 2506A-E15TAG4	Fuel Consumption Standby		125 L/hr (33.02 US gal/hr)	
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		115 L/hr (30.37 US gal/hr)	
Cycle		4 Strokes	Fuel Consumption 75% PRP		88L/hr (23.24 US gal/hr)	
Aspiration		Turbocharged & Air to Air Charge Cooled	Fuel Consumption 50% PRP 62 L/hr (16.3		62 L/hr (16.37 US gal/hr)	
Cooling Method		Water	EXHAUST SYSTEM		1	
Governing Type		Electrical	Muffler Type		Industrial Grade	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		6.8 kPa	
Compression Ratio		16:1	Exhaust Gas Flow (PRP/ESP)		102 / 112 m ³ /min	
Displacement		15.2 L (927.in ³)	Exhaust Gas Temperature		590°C	
BorexStroke		137x171 mm	ALTERNATOR SPECIFICATIONS		IONS	
Battery and Charger Alternator		24 VDC , 70 Amp	Rated Output (Prime) ⁽¹⁾		750 kVA	
AIR SYSTEM			Rated Output (Standby) (2)		819 kVA	
Air Filter Type		Dry Element	Alternator Make & Model		HCI544E/ S5L1D- E4	
Combustion Air Flor	w (PRP)	39 m ³ /min	Number of Poles		4	
Combustion Air Flor	w (ESP)	42 m ³ /min	Number of Winding Leads		12	
Radiator Air Flow		866 m³/min	Type of Bearing		Single	
COOLING SYSTEM	Π		Insulation Class / Temp Rise		H/H	
Total Coolant Capa	city (L)	58 L (15.3 US gal)	Efficiency @ Rated Voltage		94.8%	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23	
Radiator Fan Load		15.5 kW	Excitation System		Self Excited	
Heat Radiation to Ro	om (PRP)	30.5 kW	AVR Model Stamford		d - AS440	
Heat Radiation to Room (ESP)		32.5 kW	ALTERNATOR OPERATING		DATA	
UBRICATION SYSTEM			Overspeed		2250 r.p.m	
Oil Filter Type		eplaceable 'Ecoplus' filter	Voltage Regulation		±1%	
Total Oil Capacity		62 L (16.4 US gal)	Waveform distortion		No load < 1.5%, Linear load < 5%	
Oil Pan		53 L (14 US gal)	Radio Interface EN 61000		0-6-2 & EN 61000-6-4	
Oil Type API CH4		CI4; SAE 15W-40	Cooling Air Flow		1.312 m ³ /sec	

(¹⁾ **PRIME POWER RATING (PRP):** PRP is defined as the maximum power which a Generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year. The permissible average power output over 24 hours shall not exceed 70% of PRP unless otherwise agreed by RIC engine manufacturer. An overload capability of 10% of 100% of the prime rated electrical power is permitted for emergency use for a period of 1 hour within 12 hours of operation

⁽²⁾ **EMERGENCY STANDBY POWER RATING (ESP):** ESP is defined as the maximum power available during a variable electrical power sequence, under the stated operation condition, for which a generating set is capable of delivering power in the event of a utility power outage or under test condition for up to 200 Hours of operation per year. The permissible average output over 24 hour of operation shall not exceed 70 % of the ESP power rating noting that no over load is permitted.



PI 624P

Industrial Generating Set



CONTROLLER SPECIFICATIONS					
Controller Make & N	DeepSea 6120				
Operation Mode	MRS / AMF (optional)				
Display	-lit LCD (128x64) pixles				
Ingress Protection F	IP65				
Binary Inputs/Outpu	6 / 4				
Analog Inputs	4				
Measurement	Vac, A, Hz, kVA, kW, Vdc				
Event Log Alarms lo		g, Hrs log			
Communication	USB				

ENCLOSURE SPECIFICATIONS

Enclosure Type

Acoustic & Weather Proof

Anticorrosive Protection

Polyester Powder Coated Galvanized Sheet

Ingress Protection R	IP23		
Lifting ISO S		andard Lifting	
Emergency	External Emergency Push Button		
Canopy RAL Color	RAL 2000		
Baseframe RAL Col	RAL 9011		
Noise Pressure leve	78 dB(A)		

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3500	1250	2180	690	3536	3600
CLOSE	5205	1624	2605	1030	4720	4850

STANDARD MECHANICAL FEATURES

Genset design provides a low noise level with an optimized performance of the ventilation and exhaust systems at 50 °C ambient temperature.

Robust structure design of Enclosure and Baseframe.

Hevy duty lifting lugs.

Multi doors for easy access & maintenance.

Ingress Protection Rating according to BS EN 60529.

Heavy Duty Baseframe with built-in tank & forklift pockets.

Industrial Grade Muffler with rain cap.

OPTIONAL FEATURES

Advanced Controllers are available on request.

4 poles manual / Motorized Circuit breaker

Jacket water pre-heater

Static Battery Charger

Residential / Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator

Application

Infrastructure, Industrial , Residential , Telecom, Defense , Mining , Aggriculture

STANDARD ELECTRICAL FEATURES

An advance Control system is designed to provide a comperhensive protection and to monitor the parameters of generating set.

MCCB power circuit breaker.

Battery with charging alternator, cables, and tray.

Sealed harness & high resistant electrical connections.

Fast and accurate protection response.

Generating Set remote start function.

Numeric display with LED. Various languages capable.



Address: PO Box 4083, Dammam 34331, Kingdom of Saudi Arabi Tel: +966 13 8167179