

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.





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PI 909P

Industrial Generating Set

POWERED BY **Perkins**

MODEL rpm / H: PI 909P 1800 / 60		VOLTAGE	PRIME ⁽¹⁾ 802 kVA / 641.6 kWe		STANDBY ⁽²⁾
		480 / 277			888 kVA / 710.4 kWe
ENGINE SPECIF	ICATIONS		FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾		720 kWm	Fuel Filter: Replaceable primary filter/water sepa	' fuel filter elements wit	
Rated Output (ES	P) ⁽²⁾	793 kW _m	Recommended Fuel		Class A2 Diesel
Engine Make & Model		Perkins 2806A - E18TTAG4	Recommended Fuel		Class A2 Diesel
No. of Cylinders		6 Vertical In-line	Fuel Consumption Standby		196 L/hr
Cycle		4 Strokes	Fuel Consumption 100% PRP		178 L/hr
Aspiration		Turbocharged	rbocharged Fuel Consumption 75%		130 L/hr
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Electrical	Muffler Type		Industrial Grade
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		8.5 kPa
Compression Rati	0	14.5:1	Exhaust Gas Flow (PRP/ESP)		148 / 157 m ³ /min
Displacement		18.1 L (1104.in ³)	Exhaust Gas Temperature (PRP/FSP)		433ºC/455ºC
BorexStroke		145x183 mm	ALTERNATOR SPECIFICATIONS		IONS
Battery and Charger Alternator		24 VDC , 70 Amp	Rated Output (Prime) ⁽¹⁾		1000 kVA
AIR SYSTEM			Rated Output (Standby) (2)		1088 kVA
Air Filter Type		Dry Element	Alternator Make & Model		HCI634G/ S5L1D- H4
Combustion Air Flo	ow (PRP)	37 m ³ /min	Number of Poles		4
Combustion Air Flo	ow (ESP)	40 m ³ /min	Number of Winding Leads		12
Radiator Air Flow		702 m³/min	Type of Bearing		Single
COOLING SYST	EM		Insulation Class / Temp Rise		H/H
Total Coolant Capa	acity (L)	110 litres	Efficiency @ Rated Voltage		94.3%
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Load		45 kW	Excitation System		PMG
Heat Radiation to Room (PRP)		120 kW	AVR Model Stamford		– MX321
Heat Radiation to Room (ESP)		132 kW	ALTERNATOR OPERATING		DATA
LUBRICATION SYSTEM			Overspeed		2250 r.p.m
Oil Filter Type		eplaceable 'Ecoplus' filter	Voltage Regulation		±1%
Total Oil Capacity		68 litres	Waveform distortion		No load < 1.5%, Linear load < 5%
Oil Pan		56 L (14 US gal)	Radio Interface EN 6100		0-6-2 & EN 61000-6-4
Oil Type API CH4		CI4; SAE 15W-40	Cooling Air Flow 1.96 ⁴		1.961 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.



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CONTROLLER SPECIFICATIONS					
Controller Make & M	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	Measurement Vac, A, H				
Event Log	Alarms log, Hrs log				
Communication	USB				

ENCLOSURE SPECIFICATIONS				
Enclosure Type	Acoustic & Weather Proof			
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection	IP23			
Lifting	ISO Star	ndard Lifting		
Emergency External E		Emergency Push Button		
Canopy RAL Color	RAL 2000			
Baseframe RAL Co	RAL 9011			
Noise Pressure lev	83 dB(A)			
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GENSET DIMENSIONS & WEIGHT							
GENSE	ТТҮРЕ	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN		4120	2040	2450	1630	5223	5273
CLOSE		5965	2065	3125	1941	7160	7200

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.

Heavy 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 separator Fuel Filter

Remote Annunciator

Application

Infrastructure, Industrial, Residential, Telecom, Defense, Mining, Agriculture

STANDARD ELECTRICAL FEATURES

An advance Control system is designed to provide a comprehensive 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.



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