

PI 900P

Industrial Generating Set



MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 900P	1500 / 50	400 / 230	800 kVA / 640 kWe	900 kVA / 720 kWe

Full rated power available upto 100 meter elevation at ambient of 27degC, for other temperature and altitude limits please consult application team

705 kW _m 786 kW _m Perkins 4006-23TAG3A 6 Vertical In-line 4 Strokes Turbocharged & Air to Air Cooled Water Electronic G2 - ISO 8528 Part 1 13.6:1 22.9 L (1397.in ³) 160x190 mm 24 VDC , 55 A		
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4 Strokes Turbocharged & Air to Air Cooled Water Electronic G2 - ISO 8528 Part 1 13.6:1 22.9 L (1397.in ³) 160x190 mm		
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24 VDC , 55 A		
Dry,Paper		
64 m ³ /min		
71 m ³ /min		
870 m³/min		
120 L (31.7 US gal)		
Centrifugal Eng-Driven		
30 kW		
70 kW		
79 kW		
Full-flow replaceable 'Ecoplus' filter		
13.4 L (29.9 US gal)		

FUEL SYSTEM		
Fuel Filter: Replaceable 'Ecoplus primary filter/water separator	s' fuel filter elements with	
Recommended Fuel	Class A2 Diesel	
Fuel Consumption Standby	193 L/hr (50.9 US gal/hr)	
Fuel Consumption 100% PRP	172 L/hr (45.43 US gal/hr)	
Fuel Consumption 75% PRP	131 L/hr (34.6 US gal/hr)	
Fuel Consumption 50% PRP	91 L/hr (24 US gal/hr)	
EXHAUST SYSTEM		
Muffler Type	Residential Grade	
Max. Back Pressure	6 kPa	
Exhaust Gas Flow	180 m ³ /min	
Exhaust Gas Temperature	430°C	
ALTERNATOR SPECIFICAT	IONS	
Rated Output (Prime) (1)	910 kVA	
Rated Output (Standby) (2)	1010 kVA	
Alternator Make & Model	Leroy somer TAL 049 D	
Number of Poles	4	
Number of Winding Leads	6 Leads / 12 lead optional	
Towns of December of	Single	
Type of Bearing	Single	
Insulation Class / Temp Rise	Single H/H	
Insulation Class / Temp Rise	H/H	
Insulation Class / Temp Rise Efficiency @ Rated Voltage	H/H 94.5%	
Insulation Class / Temp Rise Efficiency @ Rated Voltage Ingress Protection Rating	H/H 94.5% IP 23	
Insulation Class / Temp Rise Efficiency @ Rated Voltage Ingress Protection Rating Excitation System	H/H 94.5% IP 23 Self excited	
Insulation Class / Temp Rise Efficiency @ Rated Voltage Ingress Protection Rating Excitation System AVR Model R150	H/H 94.5% IP 23 Self excited	
Insulation Class / Temp Rise Efficiency @ Rated Voltage Ingress Protection Rating Excitation System AVR Model R150 ALTERNATOR OPERATING	H/H 94.5% IP 23 Self excited DATA 2250 r.p.m ± 0.5 %	
Insulation Class / Temp Rise Efficiency @ Rated Voltage Ingress Protection Rating Excitation System AVR Model R150 ALTERNATOR OPERATING Overspeed	H/H 94.5% IP 23 Self excited DATA 2250 r.p.m	
Insulation Class / Temp Rise Efficiency @ Rated Voltage Ingress Protection Rating Excitation System AVR Model R150 ALTERNATOR OPERATING Overspeed Voltage Regulation Waveform distortion	H/H 94.5% IP 23 Self excited DATA 2250 r.p.m ± 0.5 % No load < 3.5%,	

⁽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

API CH4/CI4; SAE 15W-40

⁽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.



Oil Type



PI 900P

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CONTROLLER SPECIFICATIONS			
Controller Make & N	DeepSea 6120MKIII		
Operation Mode		MRS / AMF (optional)	
Display	Display Graphic Back		
Ingress Protection F	IP65		
Binary Inputs/Outputs		8/6	
Analog Inputs		4	
Measurement	Vac, A, H	Vac, A, Hz, kVA, kW, Vdc	
Event Log Alarms Id		g, Hrs log	
Communication	USB		

ENCLOSURE SPECIFICATIONS			
Enclosure Type Acousti		c & Weather Proof	
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection Rating		IP22	
Lifting ISO Star		ndard Lifting	
Emergency	External E	mergency Push Button	
Canopy RAL Color		RAL 2000	
Baseframe RAL Color		RAL 9011	
Noise Pressure level @ 7m		85 dB(A)±3dB(A)	

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	4320	2195	2535	1780 (9h)	6620	6850
CLOSE	5965	2190	3315	1800 (9h)	8765	8900

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.

Residential Grade Muffler with rain cap.

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.

OPTIONAL FEATURES

Advanced Controllers are available on request.

4 poles manual / Motorized Circuit breaker

Jacket water pre-heater

Static Battery Charger

Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator

Application

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



