

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.

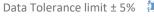
NGINE SPECIFIC	ATIONS	
Rated Output (PRP) (1)	705 kW _m
Rated Output (ESP)	786 kW _m	
Engine Make & Mod	del	Perkins 4006-23TAG3A
No. of Cylinders		6 Vertical In-line
Cycle		4 Strokes
Aspiration		Turbocharged & Air to Air Cooled
Cooling Method		Water
Governing Type		Electronic
Governing Class		G2 - ISO 8528 Part 1
Compression Ratio	13.6:1	
Displacement	22.9 L (1397.in ³)	
BorexStroke	160x190 mm	
Battery and Charger	24 VDC , 70 Amp	
IR SYSTEM		
Air Filter Type		Dry Element
Combustion Air Flo	w (PRP)	69 m³/min
Combustion Air Flo	w (ESP)	73 m³/min
Radiator Air Flow	1200 m³/min	
OOLING SYSTEM	Л	
Гotal Coolant Capa	105 L (27.7 US gal)	
Water Pump Type	Centrifugal Eng-Driven	
Radiator Fan Load	26 kW	
Heat Radiation to Ro	77 kW	
Heat Radiation to Ro	86 kW	
JBRICATION SYS	STEM	
Oil Filter Type	Full-flow r	eplaceable 'Ecoplus' filter
On tinter type	Total Oil Capacity	
		113.4 L (29.9 US gal)
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FUEL SYSTEM	
Fuel Filter: Replaceable 'Ec with primary filter/water separ	
Recommended Fuel	Class A2 Diesel
Fuel Consumption Standb	oy 202 L/hr (53.3 US gal/hr)
Fuel Consumption 100% PF	RP 175 L/hr (46.2 US gal/hr)
Fuel Consumption 75% PRI	P 132 L/hr (34.8 US gal/hr)
Fuel Consumption 50% PRI	P 91 L/hr (24 US gal/hr)
EXHAUST SYSTEM	
Muffler Type	Residential Grade
Max. Back Pressure	3 kPa
Exhaust Gas Flow	193 m³/min
Exhaust Gas Temperature	€ 500°C
ALTERNATOR SPECIFIC	CATIONS
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	6/12
Type of Bearing	Single
Insulation Class / Temp Ris	e H/H
Efficiency @ Rated Voltage	ge 94.5%
Ingress Protection Rating	IP 23
Excitation System	Self excited
AVR Model R15	0
ALTERNATOR OPERAT	ING DATA
Overspeed	2250 r.p.m
Voltage Regulation	± 0.5 %
Waveform distortion	No load < 1.5%, Linear load < 5%
Radio Interface EN 6	61000-6-2 & EN 61000-6-4

⁽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 & Model		DeepSea 6120 MKII		
Operation Mode	MRS / AMF (optional)			
Display	Display Graphic Back			
Ingress Protection Rating		IP65		
Binary Inputs/Outputs		8/6		
Analog Inputs		4		
Measurement	Vac, A, Hz, kVA, kW, Vdc			
Event Log	Alarms lo	ms log, Hrs log		
Communication	USB			

ENCLOSURE SPECIFICATIONS			
Enclosure Type Acousti		c & Weather Proof	
Anticorrosive Protection			
Polyurethane paint with anti corrosive base coat.			
Ingress Protection F	IP23		
Lifting	Lifting ISO Stan		
Emergency External E		mergency Push Button	
Canopy RAL Color	RAL 9010		
Baseframe RAL Co	RAL 9010		
Noise Pressure level @ 7m		81 dB(A)	

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg) Appx	Wet Weight (kg) Appx
OPEN	4120	2320	2510	1885	6570	6800
CLOSE	20 FEET HC CONTAINER		1940	7330	7425	

Note: The following dimensions are for preliminary guidance. For more detailed and accurate dimensions, please refer to the General Arrangement Drawing (GAD).

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







