



MODEL	rpm / Hz	VOLTAGE	PRIME <sup>(1)</sup>	STANDBY <sup>(2)</sup>
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.

### ENGINE SPECIFICATIONS

Rated Output (PRP) <sup>(1)</sup>	705 kW <sub>m</sub>
Rated Output (ESP) <sup>(2)</sup>	786 kW <sub>m</sub>
Engine Make & Model	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 <sup>3</sup> )
BorexStroke	160x190 mm
Battery and Charger Alternator	24 VDC , 70 Amp

### AIR SYSTEM

Air Filter Type	Dry Element
Combustion Air Flow (PRP)	69 m <sup>3</sup> /min
Combustion Air Flow (ESP)	73 m <sup>3</sup> /min
Radiator Air Flow	1200 m <sup>3</sup> /min

### COOLING SYSTEM

Total Coolant Capacity (L)	105 L (27.7 US gal)
Water Pump Type	Centrifugal Eng-Driven
Radiator Fan Load	26 kW
Heat Radiation to Room (PRP)	77 kW
Heat Radiation to Room (ESP)	86 kW

### LUBRICATION SYSTEM

Oil Filter Type	Full-flow replaceable 'Ecoplus' filter
Total Oil Capacity	113.4 L (29.9 US gal)
Oil Pan	113.4 L (29.9 US gal)
Oil Type	API CH4/C14; SAE 15W-40

### FUEL SYSTEM

Fuel Filter: Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator	
Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	202 L/hr (53.3 US gal/hr)
Fuel Consumption 100% PRP	175 L/hr (46.2 US gal/hr)
Fuel Consumption 75% PRP	132 L/hr (34.8 US gal/hr)
Fuel Consumption 50% PRP	91 L/hr (24 US gal/hr)

### EXHAUST SYSTEM

Muffler Type	Residential Grade
Max. Back Pressure	3 kPa
Exhaust Gas Flow	193 m <sup>3</sup> /min
Exhaust Gas Temperature	500 <sup>0</sup> C

### ALTERNATOR SPECIFICATIONS

Rated Output (Prime) <sup>(1)</sup>	910 kVA
Rated Output (Standby) <sup>(2)</sup>	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 Rise	H/H
Efficiency @ Rated Voltage	94.5%
Ingress Protection Rating	IP 23
Excitation System	Self excited
AVR Model	R150

### ALTERNATOR OPERATING DATA

Overspeed	2250 r.p.m
Voltage Regulation	± 0.5 %
Waveform distortion	No load < 1.5%, Linear load < 5%
Radio Interface	EN 61000-6-2 & EN 61000-6-4
Cooling Air Flow	1 m <sup>3</sup> /sec

<sup>(1)</sup> **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

<sup>(2)</sup> **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.





### CONTROLLER SPECIFICATIONS

Controller Make & Model	DeepSea 6120 MKII
Operation Mode	MRS / AMF (optional)
Display	Graphic Back-lit LCD (128x64) pixels
Ingress Protection Rating	IP65
Binary Inputs/Outputs	8 / 6
Analog Inputs	4
Measurement	Vac, A, Hz, kVA, kW, Vdc
Event Log	Alarms log, Hrs log
Communication	USB

### ENCLOSURE SPECIFICATIONS

Enclosure Type	Acoustic & Weather Proof
Anticorrosive Protection	Polyurethane paint with anti corrosive base coat.
Ingress Protection Rating	IP23
Lifting	ISO Standard Lifting
Emergency	External Emergency Push Button
Canopy RAL Color	RAL 9010
Baseframe RAL Color	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.

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.

Residential grade muffler with rain cap.

### 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.

### 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 separator Fuel Filter

Remote Annunciator

### Application

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

