م في في الحليك العليم العلي PRECISION INDUSTRIES ®		PI 200P Industrial Generating Set		POWERED	Perk
MODEL	rpm / Hz				STANDBY <sup>(2)</sup>
PI200P	1500 / 50	400 / 230	180.0 kVA / 144		200 kVA / 160kWe
Full rated power available eam.	upto 100 meter	elevation at ambient of 27degC	, for other temperature and a	ltitude limits p	please consult application
ENGINE SPECIFIC	CATIONS		FUEL SYSTEM		
Rated Output (PRF	<b>P)</b> <sup>(1)</sup>	163.9 kW <sub>m</sub> Fuel Filter: Ecoplus		fuel filter	
Rated Output (ESP) (2)		179.8 kW <sub>m</sub>	Recommended Fue	el	Class A2 Diesel
Engine Make & Model		Perkins 1106A-70TAG3	Fuel Consumption Standby		44.6 L/hr (11.8 US gal/
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		41.6 L/hr (10.9 US gal/
Cycle		4 Strokes	Fuel Consumption 75% PRP		31.8 L/hr (8.45 US gal/
Aspiration		Turbocharged after cooled	Fuel Consumption 50% PRP		20.1 L/hr (5.3 US gal/h
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Mechanical	Muffler Type		Residential Grad
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		6 kPa
Compression Ratio		16:1	Exhaust Gas Flow (PRP/ESP)		31.5 / 33.85 m <sup>3</sup> /ı
Displacement		7 L (428.in <sup>3</sup> )	Exhaust Gas Temperature		491 <sup>0</sup> C
BorexStroke (mm/in)		105x135 / 4.1x 5.3	ALTERNATOR SPECIFICAT		TIONS
Battery and Charger	Alternator	12 VDC , 65 Amp	Rated Output (Prime) <sup>(1)</sup>		180 kVA
AIR SYSTEM			Rated Output (Standby) <sup>(2)</sup>		200 kVA
Air Filter Type		Dry Element	Alternator Make & Model		Leroy somer TAL 044 L
Combustion Air Flow (PRP)		13.1 m <sup>3</sup> /min	Number of Poles		4
Combustion Air Flo	w (ESP)	13.9 m <sup>3</sup> /min	Number of Winding Leads		6/12
Radiator Air Flow		234 m³/min	Type of Bearing		Single
	M		Insulation Class / Temp Rise		H/H
Total Coolant Capa	acity (L)	21L ( 5.5 US gal)	Efficiency @ Rated Voltage		92.4%
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Load		5 kW	Excitation System		Self Excited
Heat Radiation to Room (PRP)		11.4 kW	AVR Model R120		
Heat Radiation to R	oom (ESP)	12.4 kW	ALTERNATOR OP	PERATING	<b>DATA</b>
LUBRICATION SYSTEM		Overspeed			2250 r.p.m
Oil Filter Type	Spin	on full flow filter	Voltage Regulation		± 1 %
Total Oil Capacity		16.5 L (4.4 US gal)	Waveform distortion		No load < 1.5%, Linear load < 5%
Oil Pan		14.9 L (3.93 US gal)	I) Radio Interface EN		0-6-2 & EN 61000-6
Oil Type	API CH4/	CI4; SAE 15W-40	Cooling Air Flow		0.29 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.

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# PI 200P



**Industrial Generating Set** 

# CONTROLLER SPECIFICATIONS

Controller Make & I	DeepSea 6120 MKII		
Operation Mode	MRS / AMF (optional)		
Display Graphic Back		x-lit LCD (128x64) pixles	
Ingress Protection I	IP65		
Binary Inputs/Output	8/6		
Analog Inputs	4		
Measurement	Vac, A, H	z, kVA, kW, Vdc	
Event Log	Alarms lo	g, Hrs log	
Communication	USB		

## **ENCLOSURE SPECIFICATIONS**

Enclosure	Туре
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Acoustic & Weather Proof

Anticorrosive Protection

Polyester Powder Coated Galvanized Sheet

ndard Lifting	
mergency Push Button	

#### **GENSET DIMENSIONS & WEIGHT**

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg) Appx	Wet Weight (kg) Appx
OPEN	2800	900	1650	434	1800	1850
CLOSE	3764	1155	1881	455	2170	2220

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.

## **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

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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.



