الصناعات المقيقية PRECISION INDUSTRIES		PI 2	POWERED	BY 🍪 Perki		
		Industrial Ge				
IODEL rpm / Hz			PRIME <sup>(1)</sup>		STANDBY <sup>(2)</sup>	
PI 250P 1500 / 50		400 / 230	225 kVA / 180 kWe		250 kVA / 200 kWe	
ull rated power available eam.	e upto 100 meter	elevation at ambient of 27degC	C, for other temperature and a	ltitude limits p	lease consult application	
INGINE SPECIFI	CATIONS		FUEL SYSTEM			
Rated Output (PRP) <sup>(1)</sup>		204 kW <sub>m</sub> Fuel Filter: Spin on primary,s separator		orimary,secc	ondary and water filter	
Rated Output (ESP) (2)		226 kW <sub>m</sub>	Recommended Fuel		Class A2 Diesel	
Engine Make & Model		Perkins 1206A- E70TTAG2	Fuel Consumption Standby		56.6 L/hr	
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		51 L/hr	
Cycle		4 Strokes	Fuel Consumption 75% PRP		38 L/hr	
Aspiration		Turbocharged Aftercooled	Fuel Consumption 50% PRP		25.5 L/hr	
Cooling Method		Water	EXHAUST SYSTEM			
Governing Type		Electronic	Muffler Type		Residential Grade	
Governing Class		<b>G2</b> - ISO 8528 Part 1	Max. Back Pressure		15 kPa	
Compression Ratio		15.8:1	Exhaust Gas Flow (PRP/ESP)		26.58 / 30.2 m <sup>3</sup> /mi	
Displacement		7.01 L (427.7.in <sup>3</sup> )	Exhaust Gas Temperature(PRP/ESP)		487.5°C/491.2°C	
BorexStroke (mm/	in)	105x135 / 4.13x 5.3	ALTERNATOR SPECIFICATIO		IONS	
Battery and Charge	er Alternator	12 VDC , 100 Amp	Rated Output (Prime) <sup>(1)</sup>		230 kVA	
AIR SYSTEM			Rated Output (Stan	dby) <sup>(2)</sup>	260 kVA	
Air Filter Type		Dry Element	Alternator Make & Model		Stamford UCDI274J	
Combustion Air Flow (PRP)		11.6 m <sup>3</sup> /min	Number of Poles		4	
Combustion Air Flow (ESP)		13.7 m <sup>3</sup> /min	Number of Winding Leads		12	
Radiator Air Flow		266 m³/min	Type of Bearing		Single	
COOLING SYSTE	M		Insulation Class / Temp Rise		H/H	
Total Coolant Cap	acity (L)	25 L (6.6 US gal)	Efficiency @ Rated Voltage		92.0%	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23	
Radiator Fan Load		9 kW	Excitation System		Self Excited	
Heat Radiation to F	Room (PRP)	15 kW	AVR Model Stamford		d - AS 440	
Heat Radiation to F	Room (ESP)	15 kW	ALTERNATOR OPERATING		DATA	
UBRICATION S	<b>YSTEM</b>		Overspeed		2250 r.p.m	
Oil Filter Type Spin		on full flow filter	Voltage Regulation		±1%	
Total Oil Capacity		16 L (6.6 US gal)	Waveform distortion		No load < 1.5%, Linear load < 5%	
Oil Pan		16 L (6.6 US gal)	Radio Interface	EN 6100	00-6-2 & EN 61000-6-4	
Oil Type API CH4/		/CI4; SAE 15W-40	E 15W-40 Cooling Air Flow		0.58 m³/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

(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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ISO



PI 250P

POWERED BY 🍪 Perkins

# **Industrial Generating Set**

PI 250P							
Controller Make & M	DeepSea 6120						
Operation Mode	MRS / AMF (optional)						
Display	Graphic Back-lit LCD (128x64) pixles						
Ingress Protection R	IP 65						
Binary Inputs/Output	8 / 6						
Analog Inputs	4						
Measurement	Vac, A, Hz, kVA, kW, Vdc						
Event Log	g, Hrs log						
Communication	USB						

#### **ENCLOSURE SPECIFICATIONS** Enclosure Type Acoustic & Weather Proof Anticorrosive Protection Polyester Powder Coated Galvanized Sheet Ingress Protection Rating IP22 ISO Standard Lifting Lifting External Emergency Push Button Emergency Canopy RAL Color **RAL 2000** Baseframe RAL Color RAL 9011 Noise Pressure level @ 7m $85 dB(A) \pm 3dB(A)$

## GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg) Appx.	Wet Weight (kg) Appx.
OPEN	3015	1000	1980	515	1975	2000
CLOSE	4414	1614	2235	760	3290	3315

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.

Residentail 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

## 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.

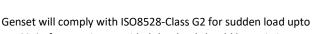
Sealed harness & high resistant electrical connections.

Fast and accurate protection response.

Generating Set remote start function.

Numeric display with LED. Various languages capable.





60% of PRP rating provided that load should be resistive.

Address: 24b St., Community 365 Al Quoz Ind. 2, Dubai, UAE | Tel: +971 4 338 4033 | Fax: +971 4 338 3997

