		PI 250P		POWERED BY 🍪 Perkir	
Industrial Generating Set					(0)
NODEL	rpm / Hz	VOLTAGE PRIME ⁽¹⁾			STANDBY ⁽²⁾
PI 250P 1500 / 50 ull rated power available upto 100 meter		400 / 230	225 kVA / 180		250 kVA / 200 kWe
eam.		elevation at ambient of 27 dego			lease consult application
ENGINE SPECI	FICATIONS		FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾		204 kW _m Fuel Filter: Spin on primary separator		orimary,secc	ondary and water filter
Rated Output (E	ESP) ⁽²⁾	226 kW _m	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		G2 - ISO 8528 Part 1	Max. Back Pressure		15 kPa
Compression Ratio		15.8:1	Exhaust Gas Flow (PRP/ESP)		26.58 / 30.2 m ³ /min
Displacement		7.01 L (427.7.in ³)	Exhaust Gas Temperature(PRP/ESP)		487.5 ⁰ C/491.2 ⁰ C
BorexStroke (mm/in)		105x135 / 4.13x 5.3	ALTERNATOR SPECIFICATIONS		IONS
Battery and Cha	rger Alternator	12 VDC , 100 Amp	Rated Output (Prime) ⁽¹⁾		230 kVA
AIR SYSTEM			Rated Output (Standby) ⁽²⁾		253 kVA
Air Filter Type		Dry Element	Alternator Make & Model		Leroy somer TAL 046 C
Combustion Air	Flow (PRP)	11.6 m ³ /min	Number of Poles		4
Combustion Air	Flow (ESP)	13.7 m ³ /min	Number of Winding Leads		6/12
Radiator Air Flo	w	266 m³/min	Type of Bearing		Single
COOLING SYS	ТЕМ		Insulation Class / Temp Rise		H/H
Total Coolant C	apacity (L)	25 L (6.6 US gal)	Efficiency @ Rated Voltage		91.3%
Water Pump Ty	ре	Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Lo	bad	9 kW	Excitation System		Self Excited
Heat Radiation t	o Room (PRP)	15 kW	AVR Model R150		
Heat Radiation to	o Room (ESP)	15 kW	ALTERNATOR OP	ERATING	DATA
LUBRICATION SYSTEM			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		0-6-2 & EN 61000-6-4
		CI4; SAE 15W-40	Cooling Air Flow		0.48 m³/sec

⁽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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Data tolerance limit +/-5%



PI 250P



Industrial Generating Set

PI 250P					
Controller Make & N	DeepSea 6120				
Operation Mode	MRS / AMF (optional)				
Display	-lit LCD (128x64) pixles				
Ingress Protection I	IP 65				
Binary Inputs/Output	8/6				
Analog Inputs	4				
Measurement	Measurement Vac, A, H				
Event Log Alarms lo		g, Hrs log			
Communication	USB				

ENCLOSURE SPECIFICATIONS

stic & Weather Proof
1

Anticorrosive Protection

Polyester Powder Coated Galvanized Sheet

Ingress Protection F	IP23		
Lifting ISO Star		ndard Lifting	
Emergency External E		mergency Push Button	
Canopy RAL Color	RAL 9010		
Baseframe RAL Co	RAL 9010		
Noise Pressure leve	85 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	2800	1120	1660	525	2289	2355
CLOSE	4411	1614	2217	720	2942	2980

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

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.



Genset will comply with ISO8528-Class G2 for sudden load upto 60% of PRP rating provided that load should be resistive.

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