

PI 150P



Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME ⁽¹⁾)	STANDBY ⁽²⁾
PI150P	1500 / 50	400 / 230	140.0 kVA / 112	kWe	150 kVA / 120kWe
ull rated power available eam.	upto 100 meter	elevation at ambient of 27degC	, for other temperature and all	titude limits	please consult application
INGINE SPECIFIC	ATIONS		FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾		127 kW _m	Fuel Filter: Ecoplus fuel filter		
Rated Output (ESP) ⁽²⁾	139.9 kW _m	Recommended Fuel		Class A2 Diesel
Engine Make & Model		Perkins 1106A-70TG1	Fuel Consumption Standby		33.8 L/hr (10.3 US gal/h
No. of Cylinders		6 Vertical In-line	Fuel Consumption 10	Fuel Consumption 100% PRP	
Cycle		4 Strokes	Fuel Consumption 75% PRP		22.7 L/hr (6.86 US gal/h
Aspiration		Turbocharged	Fuel Consumption 50% PRP		15.9 L/hr (4.62 US gal/h
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Mechanical	Muffler Type		Residential Grade
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure	Max. Back Pressure	
Compression Ratio		18.2:1	Exhaust Gas Flow (PRP/ESP)		20.75 / 22.6 m ³ /m
Displacement		7 L (428.in ³)	Exhaust Gas Temperature		576 ⁰ C
BorexStroke (mm/in)		105x135 / 4.1x 5.3	ALTERNATOR SPECIFICATIONS		TIONS
Battery and Charger	Battery and Charger Alternator		Rated Output (Prime) ⁽¹⁾		140 kVA
AIR SYSTEM			Rated Output (Standby) ⁽²⁾		150 kVA
Air Filter Type		Dry Element	Alternator Make & Model		Stamford UCI274
Combustion Air Flor	w (PRP)	7.64 m ³ /min	Number of Poles		4
Combustion Air Flow (ESP)		8.1 m ³ /min	Number of Winding Leads		12
Radiator Air Flow		252 m³/min	Type of Bearing		Single
COOLING SYSTEI	M		Insulation Class / Temp Rise		H/H
Total Coolant Capa	city (L)	21L (5.54 US gal)	Efficiency @ Rated Voltage		91.4%
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Load		8.9 kW	Excitation System		Self Excited
Heat Radiation to Room (PRP)		13.5 kW	AVR Model Stamford		rd - AS440
Heat Radiation to Room (ESP)		16.4 kW	ALTERNATOR OPERATING		G DATA
UBRICATION SYSTEM			Overspeed		2250 r.p.m
Oil Filter Type	Spin o	on full flow filter	Voltage Regulation		±1%
Total Oil Capacity		18 L (4.7 US gal)	Waveform distortion		No load < 1.5%, Linear load < 5%
Oil Pan		16.1 L (3.93 US gal)	Radio Interface EN 610		00-6-2 & EN 61000-6-4
Oil Type API CH4/0		CI4; SAE 15W-40	Cooling Air Flow		0.514 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.



POWERED BY **B Perkins**

CONTROLLER SPECIFICATIONS					
Controller Make & M	DeepSea 4520MKII				
Operation Mode	MRS / AMF (optional)				
Display	Graphic Back	-lit LCD (128x64) pixles			
Ingress Protection F	IP65				
Binary Inputs/Outpu	4 / 4				
Analog Inputs	3				
Measurement	Vac, A, Hz, kVA, kW, Vdc				
Event Log	Alarms log, Hrs log				
Communication	USB				

ENCLOSURE SPECIFICATIONS					
Enclosure Type Acousti		ic & Weather Proof			
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection F	IP22				
Lifting	ISO Standard Lifting				
Emergency	External E	mergency Push Button			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	76 dB(A) ±3dBA				

GENSET DIMENSIONS & WEIGHT						
GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	2795	900	1520	370	1775	1745
CLOSE	3764	1155	1881	455	2251	2280

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.

Rsidential 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

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

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.



ISO