

PI 750P

Industrial Generating Set



MODEL rpm / Hz VOLTAGE PRIME (1) STANDBY (2)
PI 750P 1800 / 60 480 / 277 681 kVA /545 kWe 750 kVA / 600 kWe

Full rated power available upto 100 meter elevation at ambient of 27degC, for other temperature and altitude limits please consult application team.

NGINE SPECIFIC	ATIONS			
Rated Output (PRP)	652 kW _m			
Rated Output (ESP)	592 kW _m			
Engine Make & Mod	Perkins 2806A- E18TAG3			
No. of Cylinders		6 Vertical In-line		
Cycle		4 Strokes		
Aspiration	Turbocharged			
Cooling Method		Water		
Governing Type		Electrical		
Governing Class	G2 - ISO 8528 Part 1			
Compression Ratio	14.5:1			
Displacement	18.13 L (1106.in ³)			
BorexStroke		145x183 mm		
Battery and Charger Alternator		24 VDC , 70 Amp		
AIR SYSTEM				
Air Filter Type		Paper Element		
Combustion Air Flov	v (PRP)	47.2 m ³ /min		
Combustion Air Flow	v (ESP)	50.5 m ³ /min		
Radiator Air Flow		804 m³/min		
COOLING SYSTEM				
Total Coolant Capac	city (L)	61 litres		
Water Pump Type		Centrifugal Eng-Driven		
Radiator Fan Load		15 kW		
Heat Radiation to Ro	om (PRP)	45 kW		
Heat Radiation to Room (ESP)		49 kW		
LUBRICATION SYSTEM				
Oil Filter Type	Oil Filter Type Full-flow re			
Total Oil Capacity	62 litres			
Oil Pan	56 L (14 US gal)			
		(-)		

FUEL SYSTEM				
Fuel Filter: Replaceable 'Ecoplus' fuel filter elements with				
primary filter/water separator Recommended Fuel		Class A2 Diesel		
Fuel Consumption S	157 L/hr			
Fuel Consumption 10	Fuel Consumption 100% PRP			
Fuel Consumption 75% PRP		104 L/hr		
Fuel Consumption 50	Fuel Consumption 50% PRP			
EXHAUST SYSTEM				
Muffler Type	Muffler Type			
Max. Back Pressure		6.9 kPa		
Exhaust Gas Flow (PRP/ESP)		125/135.7m ³ /min		
Exhaust Gas Temperature (PRP/ESP)		518°C/543°C		
ALTERNATOR SPECIFICATIONS				
Rated Output (Prime) (1)		825 kVA		
Rated Output (Standby) (2)		906 kVA		
Alternator Make & Model		HCI544F/S5L1D- F41		
Number of Poles	Number of Poles			
Number of Winding	Leads	12		
Type of Bearing		Single		
Insulation Class / Ter	Insulation Class / Temp Rise			
Efficiency @ Rated Voltage		94.9%		
Ingress Protection Rating		IP 23		
Excitation System	Excitation System			
AVR Model	Stamford	- MX321		
ALTERNATOR OP		DATA		
ALTERNATOR OPE		DATA 2250 r.p.m		
Overspeed		2250 r.p.m		
Overspeed Voltage Regulation	ERATING	2250 r.p.m ± 0.5 % No load < 1.5%,		

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

Enclosure Type	Acousti	ic & Weather Proof	
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection Rating		IP22	
Lifting	ISO Stan	dard Lifting	
Emergency	External E	mergency Push Button	
Canopy RAL Color		RAL 2000	
Baseframe RAL Color		RAL 9011	
Noise Pressure level @ 7m		85 dB(A)	

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3500	2145	2340	1385	4935	5050
CLOSE	5205	1824	2817	1230	6500	6600

Note: These dimensions are for preliminary guidance. Please refer to GA drawing.

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.

Industrial Grade Muffler with rain cap.

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.

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



