

Mechanical Power driven by **Perkins**°

- Manufactured in facilities certified with ISO 9001:2015, ISO 14001:2015 & OHSAS
- 18001:2007.
- Manufactured in accordance to 8528-1 to 12.
- Engine performance according to ISO 3046, BS 5514, DIN 6271.
- Alternator performance according to NEMA-MG1, BS 5000, DIN EN, relevant ISO, IEC60034.
- Breaker complies with IEC 60947-2.











PI 750P



Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 750P	1800 / 60	480 / 277	681 kVA / 544.8 kWe	750 kVA / 600 kWe

ENGINE SPECIFICA	ATIONS		FUEL SYSTEM		
Rated Output (PRP) (1)		618 kW _m		Fuel Filter: Replaceable 'Ecoplus' fuel filter element primary filter/water separator	
Rated Output (ESP) (2)		678 kW _m	Recommended Fue	Recommended Fuel	
Engine Make & Model		Perkins 2806A- E18TAG3A	Fuel Consumption S	Fuel Consumption Standby	
No. of Cylinders		6 Vertical In-line	Fuel Consumption 10	Fuel Consumption 100% PRP	
Cycle		4 Strokes Turbocharged & Air to	Fuel Consumption 7	Fuel Consumption 75% PRP	
Aspiration	Aspiration		Fuel Consumption 50	Fuel Consumption 50% PRP	
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Electrical	Muffler Type	Muffler Type	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure	Max. Back Pressure	
Compression Ratio		14.5:1	Exhaust Gas Flow (F	Exhaust Gas Flow (PRP/ESP)	
Displacement		18.1 L (1104.in ³)	Exhaust Gas Tempe (PRP/ESP)	Exhaust Gas Temperature (PRP/ESP)	
BorexStroke		145x183 mm	ALTERNATOR SPECIFICATIONS		
Battery and Charger Alternator		24 VDC , 70 Amp	Rated Output (Prime	Rated Output (Prime) (1)	
AIR SYSTEM			Rated Output (Stand	Rated Output (Standby) (2)	
Air Filter Type		Dry Element	Alternator Make & N	Alternator Make & Model	
Combustion Air Flov	v (PRP)	47.2 m ³ /min	Number of Poles	Number of Poles	
Combustion Air Flov	v (ESP)	50.5 m ³ /min	Number of Winding	Number of Winding Leads	
Radiator Air Flow		852 m³/min	Type of Bearing		Single
COOLING SYSTEM	1		Insulation Class / Te	Insulation Class / Temp Rise	
Total Coolant Capac	city (L)	61 L (16.1 US gal)	Efficiency @ Rated	Efficiency @ Rated Voltage	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection F	Ingress Protection Rating	
Radiator Fan Load		15 kW	Excitation System	Excitation System	
Heat Radiation to Room (PRP)		45 kW	AVR Model	AVR Model Stamford	
Heat Radiation to Room (ESP)		49 kW	ALTERNATOR OPI	ALTERNATOR OPERATING D	
LUBRICATION SYSTEM			Overspeed	Overspeed	
Oil Filter Type	Oil Filter Type Full-flow re		Voltage Regulation	Voltage Regulation	
Total Oil Capacity	Total Oil Capacity		Waveform distortion	Waveform distortion	
Oil Pan		53 L (14 US gal)	Radio Interface	Radio Interface EN 6100	
Oil Type	API CH4/	/CI4; SAE 15W-40	Cooling Air Flow	Cooling Air Flow	

⁽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 & N	DeepSea 6120			
Operation Mode	MRS / AMF (optional)			
Display	x-lit LCD (128x64) pixles			
Ingress Protection F	IP65			
Binary Inputs/Outpu	6 / 4			
Analog Inputs	4			
Measurement Vac, A, H		Iz, kVA, kW, Vdc		
Event Log Alarms lo		g, Hrs log		
Communication	USB			

ENCLOSURE SPECIFICATIONS				
Enclosure Type	ic & Weather Proof			
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection R	IP23			
Lifting	Lifting ISO Star			
Emergency External E		mergency Push Button		
Canopy RAL Color	RAL 2000			
Baseframe RAL Col	RAL 9011			
Noise Pressure leve	80 dB(A)			

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3450	1850	2340	1280	4170	4250
CLOSE	5362	1670	2738	720	5665	5750

STANDARD MECHANICAL FEATURES

Genset design provides a low noise level with an optimized performance of the ventilation and exhaust systems at 50 $^{\circ}$ 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

Residential / Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator

Application

Infrastructure, Industrial , Residential , Telecom, Defense , Mining , Aggriculture



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