

PI 770P Industrial Generating Set

POWERED BY **BPerkins**

MODEL rpm / Hz		VOLTAGE	PRIME ⁽¹⁾		STANDBY ⁽²⁾
PI 770P 1500 / 50		400 / 230		700 kVA / 560 kWe	
Full rated power available eam.	e upto 100 meter	elevation at ambient of 27degC,	, for other temperature and alt	itude limits pl	lease consult application
ENGINE SPECIFI	CATIONS		FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾		584 kW _m	Fuel Filter: Replaceable 'Ecoplus primary filter/water separator		s' fuel filter elements wit
Rated Output (ES	P) ⁽²⁾	628 kW _m	Recommended Fue	Recommended Fuel	
Engine Make & Model		Perkins 2806A - E18TTAG4	Fuel Consumption Standby		160 L/hr
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		145 L/hr
Cycle		4 Strokes	Fuel Consumption 75% PRP		108 L/hr
Aspiration		Turbocharged	Fuel Consumption 50% PRP		76 L/hr
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Electrical	Muffler Type		Residential Grade
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		5 kPa
Compression Ratio		14.5:1	Exhaust Gas Flow (PRP/ESP)		119 / 128 m ³ /min
Displacement		18.1 L (1104.in ³)	Exhaust Gas Temperature (PRP/ESP)		461ºC/465ºC
BorexStroke		145x183 mm	ALTERNATOR SPECIFICAT		IONS
Battery and Charger Alternator		24 VDC , 70 Amp	Rated Output (Prime) ⁽¹⁾		810 kVA
AIR SYSTEM			Rated Output (Standby) ⁽²⁾		860 kVA
Air Filter Type		Dry Element	Alternator Make & Model		Stamford S6L1D- C41
Combustion Air Fl	ow (PRP)	37 m ³ /min	Number of Poles		4
Combustion Air Flow (ESP)		40 m ³ /min	Number of Winding Leads		6 Leads / 12 lead optional
Radiator Air Flow		702 m³/min	Type of Bearing		Single
COOLING SYSTE	EM		Insulation Class / Temp Rise		H/H
Total Coolant Cap	acity (L)	110 litres	Efficiency @ Rated Voltage		94.2%
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Load		29 kW	Excitation System		PMG
Heat Radiation to Room (PRP)		91 kW	AVR Model Stamford		d - MX321
Heat Radiation to Room (ESP)		100 kW	ALTERNATOR OPERATING		DATA
UBRICATION S	YSTEM		Overspeed		2250 r.p.m
Oil Filter Type		eplaceable 'Ecoplus' filter	Voltage Regulation		±1%
Total Oil Capacity		68 litres	Waveform distortion		No load < 1.5%, Linear load < 5%
Oil Pan		56 L (14 US gal)	Radio Interface EN 6100		00-6-2 & EN 61000-6-4
Oil Type API CH4/		CI4; SAE 15W-40	Cooling Air Flow		1.614 m ³ /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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CONTROLLER SPECIFICATIONS					
Controller Make & M	DeepSea 6120				
Operation Mode	MRS / AMF (optional)				
Display	Graphic Back-lit LCD (128x64) pixles				
Ingress Protection R	IP65				
Binary Inputs/Output	8/6				
Analog Inputs	4				
Measurement	Vac, A, Hz, kVA, kW, Vdc				
Event Log	vent Log Alarms lo				
Communication	USB				

ENCLOSURE SPECIFICATIONS					
Enclosure Type	Acoustic & Weather Proof				
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection R	IP22				
Lifting ISO Star		ndard Lifting			
Emergency Extern		Emergency Push Button			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure level @ 7m		84 dB(A)±3 dB(A)			

GENSET DIMENSIONS & WEIGHT						
GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3650	2295	2690	1450	5875	5990
CLOSE	5873	2224	2817	1835	8197	8312

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.



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ISO