

PI 388P

POWERED BY 🍪 Perkins

Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME ⁽¹	PRIME ⁽¹⁾	
PI 388P	1500 / 50	400 / 230	352 kVA / 281kWe		388 kVA / 310 kWe
Full rated power available u team.	ıpto 100 meter	elevation at ambient of 27d	egC, for other temperature and a	ltitude limits p	please consult application
ENGINE SPECIFIC	ATIONS		FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾		311 kW _m	Fuel Filter: Spin on primary,secon separator		ndary and water filter
Rated Output (ESP) (2)		343 kW _m	Recommended Fuel		Class A2 Diesel
Engine Make & Model		Perkins 1706A-E93TAG2	Fuel Consumption Standby		69.15L/hr(18.26USgal/hr)
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		69.5 L/hr(18.35 USgal/hr)
Cycle		4 Strokes	Fuel Consumption 75% PRP		53.25 L/hr (14.06 US gal/hi
Aspiration		Turbocharged aftercooled	Fuel Consumption 50% PRP		37.5 L/hr (9.9 US gal/hr)
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Electronic	Muffler Type		Residential Grade
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure	Max. Back Pressure	
Compression Ratio		16.5:1	Exhaust Gas Flow (PRP/ESP)		47 / 51 m ³ /min
Displacement		9.29 L (566.9.in ³)	Exhaust Gas Temperature(PRP/ESP)		542ºC/558ºC
BorexStroke (mm/in)		115x149 / 4.5x 5.8	ALTERNATOR SPECIFICATIONS		IONS
Battery and Charger	Alternator	24 VDC , 45 Amp	Rated Output (Prime) ⁽¹⁾		365 kVA
AIR SYSTEM			Rated Output (Standby) ⁽²⁾		400 kVA
Air Filter Type		Dry Element	Alternator Make & Model		Lorey somer TAL 046 H
Combustion Air Flow	v (PRP)	18m ³ /min	Number of Poles		4
Combustion Air Flow (ESP)		19 m ³ /min	Number of Winding Leads		6/12.
Radiator Air Flow		370 m³/min	Type of Bearing		Single
COOLING SYSTEM	1		Insulation Class / Temp Rise		H/H
Total Coolant Capac	city (L)	35.8 L (9.45 US gal)	Efficiency @ Rated Voltage		93.4%/93.1%
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Load		9 kW	Excitation System		Self Excited
Heat Radiation to Room (PRP)		20 kW	AVR Model R150		
Heat Radiation to Room (ESP)		22 kW	ALTERNATOR OPERATING		DATA
LUBRICATION SYSTEM			Overspeed		2250 r.p.m
Oil Filter Type Spin		on full flow filter	filter Voltage Regulation		±1%
Total Oil Capacity	Total Oil Capacity		Waveform distortion		No load < 2.5%, Linear load < 5%
Oil Pan		26 L (6.8 US gal)	Radio Interface EN 6100		0-6-2 & EN 61000-6-4
Oil Type API CH4/		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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CONTROLLER SPECIFICATIONS					
Controller Make & N	DeepSea 6120MKIII				
Operation Mode	MRS / AMF (optional)				
Display Graphic Back		-lit LCD (128x64) pixles			
Ingress Protection F	IP65				
Binary Inputs/Output	8 / 6				
Analog Inputs	4				
Measurement	Vac, A, H	z, kVA, kW, Vdc			
Event Log Alarms lo		g, Hrs log			
Communication	USB				

ENCLOSURE SPECIFICATIONS

Enclosure Type	Acoustic & 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	82 dB(A)±3dB(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	3080	1200	1830	668	2780	2880
CLOSE	4414	1614	2235	760	3440	3490

Note: The dimensions are for priliminary guidance, Please refer to the general arrangement 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.

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