

## PI 338P / PI 375P

## **Industrial Generating Set**



MODEL rpm / Hz		VOLTAGE	PRIME (1)		STANDBY (2)
PI 338P / PI 375P	1800 / 60	480 / 277	338 kVA / 270 kWe		375 kVA / 300 kWe
		p upto 27degC and 100 meter		other than thi	s refer to Application team.
ENGINE SPECIFI	CATIONS		FUEL SYSTEM		
Rated Output (PRP) (1)		267 kW <sub>m</sub>	Fuel Filter: Spin on primary,secondary and water fil separator		ndary and water filter
Rated Output (ESP) (2)		293 kW <sub>m</sub>	Recommended Fuel		Class A2 Diesel
Engine Make & Model		Perkins 1506A- E88TAG5	Fuel Consumption Standby		85.7 L/hr
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		77.1 L/hr
Cycle		4 Strokes	Fuel Consumption 75% PRP		56.8 L/hr
Aspiration		Turbocharged aftercooled	Fuel Consumption 50% PRP		38.9 L/hr
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Electronic	Muffler Type		Residential Grade
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		10 kPa
Compression Ratio	0	16.1:1	Exhaust Gas Flow (PRP/ESP)		54.8 / 59.6 m <sup>3</sup> /min
Displacement		8.8 L (537.in <sup>3</sup> )	Exhaust Gas Temperature(PRP/ESP)		489 <sup>0</sup> C/512 <sup>0</sup> C
BorexStroke (mm/in)		112x149 / 4.5x 5.8	ALTERNATOR SPECIFICATIONS		IONS
Battery and Charge	er Alternator	24 VDC , 45 Amp	Rated Output (Prime) (1)		390 kVA
AIR SYSTEM	AIR SYSTEM		Rated Output (Standby) (2)		430 kVA
Air Filter Type		Dry Element	Alternator Make & Model		Stamford S4L1D-D41
Combustion Air Flow (PRP)		22.1 m <sup>3</sup> /min	Number of Poles		4
Combustion Air Flo	ow (ESP)	23.6 m <sup>3</sup> /min	Number of Winding Leads		12
Radiator Air Flow		482 m³/min	Type of Bearing		Single
COOLING SYSTEM			Insulation Class / Temp Rise		H/H
Total Coolant Capacity (L)		29.6 L (7.8 US gal)	Efficiency @ Rated Voltage		92.8%
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Load		13 kW	Excitation System		Self Excited
Heat Radiation to Room (PRP)		17 kW	AVR Model Stamford		d - AS440
Heat Radiation to Room (ESP)		17 kW	ALTERNATOR OPERATING		DATA
LUBRICATION SYSTEM			Overspeed		2250 r.p.m
Oil Filter Type	Spin	on full flow filter	Voltage Regulation		± 1 %
Total Oil Capacity		41 L (9.01 US gal)	waveform distortion		No load < 1.5%, Linear load < 5%

36 L (9.51 US gal)

API CH4/CI4; SAE 15W-40

Radio Interface

Cooling Air Flow

<sup>(2)</sup> 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  $24\ \text{hour}$  of operation shall not exceed 70 % of the ESP power rating noting that no over load is permitted.





EN 61000-6-2 & EN 61000-6-4

0.99 m³/sec

Oil Pan

Oil Type

<sup>(1)</sup> 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



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CONTROLLER SPECIFICATIONS						
Controller Make & N	DeepSea 6120MKIII					
Operation Mode	MRS / AMF (optional)					
Display	x-lit LCD (128x64) pixles					
Ingress Protection F	IP65					
Binary Inputs/Outpu	8 / 6					
Analog Inputs	4					
Measurement Vac, A,		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 Star		ndard Lifting			
Emergency External E		mergency Push Button			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	84 dB(A)				

## GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3080	1200	1830	668	2780	2880
CLOSE	4414	1614	2277	759	3440	3490

Note: These dimension and weight details are for preliminary guideline. For actual unit data refer to asbuilt GAD.

### 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

Residential / Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator

### **Application**

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



