

PI 68P / PI 75P





MODEL	rpm	/ Hz	VOLTAGE	PRIME ⁽¹)	STANDBY ⁽²⁾
PI 68P / PI 75P	1800	/ 60	480 / 277	68 kVA / 54.4k	We	75 kVA / 60kWe
ull rated power available upto am.	0 100 meter	elevation a	t ambient of 27degC, fo	or other temperature and alt	itude limits pl	ease consult application
	TIONS			FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾		63.3 kW _m		Fuel Filter: Next generation fuel filter		
Rated Output (ESP) ⁽²⁾		69.6 kW _m		Recommended Fuel		Class A2 Diesel
Engine Make & Model		Perkins 1103A-33TG2		Fuel Consumption Standby		18.2 L/hr (4.80 US gal/hr)
No. of Cylinders		3 Vertical In-line		Fuel Consumption 100% PRP		16.6 L/hr (4.38 US gal/hr)
Cycle		4 Strokes		Fuel Consumption 75% PRP		12.5 L/hr (3.30 US gal/hr)
Aspiration		Turbocharged		Fuel Consumption 50% PRP		8.8 L/hr (2.32 US gal/hr)
Cooling Method		Water		EXHAUST SYSTEM		
Governing Type		Mechanical		Muffler Type		Residential Grade
Governing Class		G2 - ISO 8528 Part 1		Max. Back Pressure		10 kPa
Compression Ratio		19.25:1 Exhaust Gas Flow (PRP/		RP/ESP)	11.8 / 12.5 m ³ /min	
Displacement		3.3 L (201in ³) Exhaust Gas Tempe (PRP/ESP)		erature	534 ⁰ C / 564 ⁰ C	
BorexStroke (mm/in)		105x127 / 4.1x 5		ALTERNATOR SPECIFICATIO		IONS
Battery and Charger Alternator		12 VDC , 65 Amp		Rated Output (Prime) ⁽¹⁾		75 kVA
	IR SYSTEM			Rated Output (Standby) ⁽²⁾		80 kVA
Air Filter Type		Dry Element		Alternator Make & Model		Stamford S1L2-Y1
Combustion Air Flow (PRP)	4.7 m ³ /min		Number of Poles		4
Combustion Air Flow (ESP)	4.9 m ³ /min Number of Winding Leads		Leads	12	
Radiator Air Flow		111 m³/min Type of Bearing			Single	
COOLING SYSTEM				Insulation Class / Temp Rise		H/H
Total Coolant Capacity	/ (L)	10.2L ((2.7 US gal)	Efficiency @ Rated Voltage		89.4 / 90.4%
Water Pump Type		Centrifugal Eng-Driven		Ingress Protection Rating		IP 23
Radiator Fan Load		2.1 kW		Excitation System		Self Excited
Heat Radiation to Room (PRP)		11 kW		AVR Model Stamford		d - AS540
Heat Radiation to Room (ESP)		11 kW		ALTERNATOR OPERATING		DATA
UBRICATION SYST	EM			Overspeed		2250 r.p.m
Oil Filter Type Spin		on full flow filter		Voltage Regulation		±1%
Total Oil Capacity		8.3L (2.	2 US gal)	Waveform distortion		No load < 1.5 / 2% Linear load < 5%
Oil Pan		7.8L (2.06 US gal)		Radio Interface	EN 6100	0-6-2 & EN 61000-6-4
Oil Type API CH4/C		CI4; SAE 15W-40		Cooling Air Flow		0.281 / 0.212 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.





PI 68P / PI 75P

Industrial Generating Set



Rev - 2

CONTROLLER SPECIFICATIONS				
Controller Make & M	DeepSea 4520			
Operation Mode	MRS / AMF (optional)			
Display	Graphic Back-lit LCD (128x64) pixles			
Ingress Protection F	IP65			
Binary Inputs/Outpu	4 / 4			
Analog Inputs	3			
Measurement	Vac, A, Hz, kVA, kW, Vdc			
Event Log	Alarms log, Hrs log			
Communication	USB			

ENCLOSURE SPECIFICATIONS					
Enclosure Type	Acoustic & Weather Proof				
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection F	IP23				
Lifting	ISO Standard Lifting				
Emergency	External E	mergency Push Button			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	73 dB(A) ±3dBA				

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	1900	750	1400	173	875	895
CLOSE	2307	1020	1430	183	1260	1285

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

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.





