

PI 68P / PI 75P



Industrial Generating Set

MODEL rpm			PRIME ⁽¹⁾		STANDBY ⁽²⁾	
PI 68P / PI 75P	1800 / 60	480 / 277	68 kVA / 54.4k		75 kVA / 60kWe	
am.	bio 100 meter elevati	on at amplent of 27degC, h	or other temperature and alti	tude limits pi	ease consult application	
			FUEL SYSTEM			
Rated Output (PRP) ⁽¹⁾ 63.3 kW _m		3 kW _m	Fuel Filter: Next generation fuel filter			
Rated Output (ESP)	(2) 69.	6 kW _m	Recommended Fuel		Class A2 Diesel	
Engine Make & Mod	el Perki	ns 1103A-33TG2	Fuel Consumption S	tandby	18.2 L/hr (4.80 US gal/h	
No. of Cylinders	3 V	/ertical In-line	Fuel Consumption 10	0% PRP	16.6 L/hr (4.38 US gal/h	
Cycle	4 S	Strokes	Fuel Consumption 75	5% PRP	12.5 L/hr (3.30 US gal/h	
Aspiration	Tur	bocharged	Fuel Consumption 50% PRP		8.8 L/hr (2.32 US gal/hr	
Cooling Method		ater	EXHAUST SYSTEM			
Governing Type	Ме	chanical	Muffler Type		Residential Grad	
Governing Class		- ISO 8528 Part 1	Max. Back Pressure		10 kPa	
Compression Ratio	19.	25:1	Exhaust Gas Flow (PRP/ESP)		11.8 / 12.5 m ³ /mi	
Displacement		L (201in ³)	Exhaust Gas Temperature (PRP/ESP)		534 ⁰ C / 564 ⁰ C	
BorexStroke (mm/in)		5x127 / 4.1x 5	ALTERNATOR SPECIFICAT		IONS	
Battery and Charger	Alternator 12	VDC , 65 Amp	Rated Output (Prime) ⁽¹⁾		75 kVA	
NR SYSTEM			Rated Output (Standby) ⁽²⁾		82.5 kVA	
Air Filter Type	Dry	/ Element	Alternator Make & Model		Leroysomer TAL042H	
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		6	
Radiator Air Flow		1 m³/min	Type of Bearing		Single	
COOLING SYSTEM			Insulation Class / Temp Rise		H/H	
Total Coolant Capac	ity (L) 10.	2L (2.7 US gal)	Efficiency @ Rated Voltage		90.0%	
Water Pump Type	Cer	ntrifugal Eng-Driven	Ingress Protection Rating		IP 23	
Radiator Fan Load		kW	Excitation System		Self Excited	
Heat Radiation to Room (PRP)		kW	AVR Model Leroysor		mer R120	
Heat Radiation to Room (ESP) 11 kW		kW	ALTERNATOR OPE	ERATING	DATA	
			Overspeed 2250 r.p.m		2250 r.p.m	
Oil Filter Type	Spin on ful	l flow filter	Voltage Regulation		±1%	
Total Oil Capacity	8.3	L (2.2 US gal)	Waveform distortion		No load < 2%, Linear load < 5%	
Oil Pan	7.8	L (2.06 US gal)	Radio Interface	EN 6100	00-6-2 & EN 61000-6-	
Oil Type API CH4/		SAE 15W-40	Cooling Air Flow		0.13 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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Rev - 2

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Controller Make & N	DeepSea 4520MKII		
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 lo	og, Hrs log	
Communication USB			
	1		

ENCLOSURE SPECIFICATIONS

Enclosure Type	nclosure Type Acoust			
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection F	IP22			
Lifting	ISO Standard Lifting			
Emergency	External Emergency Push Butto			
Canopy RAL Color	RAL 2000			
Baseframe RAL Col	RAL 9011			
Noise Pressure leve	75 dB(A)			

STANDARD ELECTRICAL FEATURES

Battery with charging alternator, cables, and tray.

Fast and accurate protection response.

Generating Set remote start function.

Sealed harness & high resistant electrical connections.

Numeric display with LED. Various languages capable.

الصناعات <mark>الحقيقة</mark> PRECISION INDUSTRIES

An advance Control system is designed to provide a

comperhensive protection and to monitor the parameters of

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

generating set.

MCCB power circuit breaker.

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

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