

## PI 563C



Rev-1

Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME <sup>(1)</sup>	STANDBY <sup>(2)</sup>
PI 563C	1500 / 50	400 / 230	511.8 kVA / 409.4 kWe	563.0 kVA / 450.4 kWe

Full rated power available upto 100 meter elevation at ambient of 50degC, for other temperature and altitude limits please consult application team.

Rated Output (PRP) <sup>(1)</sup>		458 kW <sub>m</sub>	Fuel Filter: Spin on full flow filter with water separator			eparator	
Rated Output (ESP) (2)		504 kW <sub>m</sub>	Recommended Fuel	Recommended Fuel		Class A2 Diesel	
Engine Make & Model		ummins M15-G8	Fuel Consumption St	Fuel Consumption Standby		111 L/hr / 29.2 US gal/hr	
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100	Fuel Consumption 100% PRP 99		99 L/hr / 26.2 US gal/hr	
Cycle		4 Strokes	Fuel Consumption 75%	Fuel Consumption 75% PRP		73 L/hr / 19.3 US gal/hr	
Aspiration		Turbocharged and Charge air cooled	Fuel Consumption 50%	Fuel Consumption 50% PRP		49 L/hr / 12.8 US gal/hr	
Cooling Method	,	Water	EXHAUST SYSTEM				
Governing Type		Electronic	Muffler Type		Residential Grade		
Governing Class		<b>G2</b> - ISO 8528 Part 1	Max. Back Pressure		10.13 kPa		
Compression Ratio		23:01	Exhaust Gas Flow (PRP/ESP)		69.5 / 74.6 m <sup>3</sup> /min		
Displacement		14.5 L	Exhaust Gas Tempe	Exhaust Gas Temperature (PR		416 / 459 °C	
Bore/Stroke (mm / in) (135 / 169)/(5.31/6.65) ALTERNATOR SPECIFICATIONS							
Electrical Starting System		24 VDC, Starter motor	Rated Output (Prime)	Rated Output (Prime) <sup>(1)</sup>		550 kVA	
AIR SYSTEM			Rated Output (Stand by) <sup>(2)</sup>		590 kVA		
Air Filter Type		Dry Element	Alternator Make & Mo	Alternator Make & Model		Stamford HCI544D	
Combustion Air Flow (PRP)		32.1 m <sup>3</sup> /min	Number of Poles		4		
Combustion Air Flow (ESP)		33 m <sup>3</sup> /min	Number of Winding Leads		12		
Radiator Air Flow		462 m <sup>3</sup> /min	Type of Bearing		Single		
COOLING SYSTEM			Insulation Class / Tem	p Rise	H/H		
Total Coolant Capacity		83.1 L	Efficiency	Efficiency		94.3%	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Ra	Ingress Protection Rating		IP 23	
Radiator Fan Load		10.8 kW	Excitation System		Self Excited		
Heat Radiation to Room (F	PRP)	40 Kw	AVR Model	R Model Stamfo		ord - AS440	
Heat Radiation to Room (E	SP)	45 kW	ALTERNATOR OPE	RATING	DATA		
LUBRICATION SYSTEM	1		Overspeed		2250 r.p.	m	
Oil Filter Type Spin		full flow filter	Voltage Regulation		± 1.0 %		
Total Oil Capacity	57	′ L / 15.1 US gal.	Wafeform distortion	Wafeform distortion		No load <1.5% Linear load <5%	
Oil Pan	52	2.0 L / 13.7 US gal.	Radio Interface	Radio Infortaco		61000-6-2 & BS EN 61000-6- 1875G, VDE 0875N	
Oil Type API CH4		4; SAE 15W-40			1.035 m <sup>3</sup>		

(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

<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 hour of operation shall not exceed 70 % of the ESP power rating noting that no over load is permitted.

ISO



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#### CONTROLLER SPECIFICATIONS

Controller Make & N	DeepSea 6120MKI		
Operation Mode	MRS / AMF (optional)		
Display	Graphic Back-lit LCD (128x64) pixles		
Ingress Protection F	IP65		
Binary Inputs/Outpu	8 / 6		
Analog Inputs	4		
Measurement	Vac, A, Hz, kVA, kW, Vdc		
Event Log	Alarms lo	g, Hrs log	
Communication	USB		

#### **ENCLOSURE SPECIFICATIONS** Acoustic & Weather Proof Enclosure Type Anticorrosive Protection Polyester Powder Coated Galvanized Sheet Ingress Protection Rating **IP22** Lifting ISO Standard Lifting External Emergency Push Button Emergency Canopy RAL Color **RAL 2000** Baseframe RAL Color RAL 9011 Noise Pressure level @ 7m 86.2 dB(A)

### **GENSET DIMENSIONS & WEIGHT**

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3505	2005	2310	1060	3500	TBA
CLOSE	5205	1625	2620	1039	4950	ТВА

Note that these dimensions are subjected to change as part of continous development process.

### **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, Defence, Mining, Agriculture,

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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.

