



## Mechanical Power driven by :



- Manufactured in facilities certified with ISO 9001:2015, ISO 14001:2015 & OHSAS18001:2007.
- Manufactured in accordance to 8528-1 to 12.
- Engine performance according to ISO 3046, BS 5514, DIN 6271.
- Alternator performance according to NEMA-MG1, BS 5000, DIN EN, relevant ISO, IEC60034.













# PI 625C

## **Industrial Generating Set**

POWERED BY



MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 625C	1800 / 60	480 / 277	563.0 kVA / 450.0 kWe	625.0 kVA / 500.0 kWe

ENGINE SPECIFIC	ATIONS	,	FUEL SYSTEM			
Rated Output (PRP) (1)		507 kW <sub>m</sub>	Fuel Filter: Spin on	Fuel Filter: Spin on full flow filter with water separator		
Rated Output (ESP) (2)		563 kW <sub>m</sub>	Recommended Fu	Recommended Fuel Class A2 Dies		
Engine Make & Model		Cummins QSX15-G9	Fuel Consumption	Fuel Consumption Standby 135.9 L/hr / 35.9		
No. of Cylinders		6 Vertical In-line	Fuel Consumption 1	Fuel Consumption 100% PRP 117.8 L/hr / 3		
Cycle		4 Strokes	Fuel Consumption 7	Fuel Consumption 75% PRP 90.5 L/hr / 2		
Aspiration		Turbocharged and Charge Air Cooled	Fuel Consumption 5	Fuel Consumption 50% PRP 65.3 L/hr / 17.2 US g		
Cooling Method		Water	<b>EXHAUST SYSTE</b>	EXHAUST SYSTEM		
Governing Type		Electronic	Muffler Type	Muffler Type		
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressu	Max. Back Pressure		
Compression Ratio		17.0: 1.0	Exhaust Gas Flow (	Exhaust Gas Flow (PRP/ESP)		
Displacement		15.0 L / 912 in <sup>3</sup>	Exhaust Gas Ten	Exhaust Gas Temperature (PRP/ESP) 468 / 488 °C		
Bore/Stroke (mm / in)		(137/169)/ (5.39/6.65)	<b>ALTERNATOR SF</b>	ALTERNATOR SPECIFICATIONS		
Electrical Starting System		24 VDC, Starter motor	Rated Output (Prir	Rated Output (Prime) (1) 644		
AIR SYSTEM			Rated Output (Sta	Rated Output (Stand by) (2) 694.0		
Air Filter Type		Dry Element	Alternator Make &	Alternator Make & Model		
Combustion Air Flow	Combustion Air Flow (PRP)		Number of Poles	Number of Poles		
Combustion Air Flow	Combustion Air Flow (ESP)		Number of Winding	Number of Winding Leads		
Radiator Air Flow		708 m³/min	Type of Bearing	Type of Bearing		
COOLING SYSTEM			Insulation Class / To	Insulation Class / Temp Rise		
Total Coolant Capac	city	24 L / 25 US qt	Efficiency	Efficiency 94.5%		
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection	Ingress Protection Rating		
Radiator Fan Load		16 kW	Excitation System	Excitation System		
Heat Radiation to Room (PRP)		42 Kw	AVR Model	Stamfo	ord – AS440	
Heat Radiation to Ro	Heat Radiation to Room (ESP)		<b>ALTERNATOR OF</b>	ALTERNATOR OPERATING		
LUBRICATION SYSTEM		Overspeed	Overspeed			
Oil Filter Type Spir		n on full flow filter	Voltage Regulation	Voltage Regulation		
Total Oil Capacity 91.0 L / 24		4 US gal.	Wafeform distortion		No load <1.5% Linear load <5%	
Oil Pan 83.0 L / 22		2 US gal.	Radio Interface	St	andard EN61000-6-2:2001	
		4/CI4; SAE 15W-40	Cooling Air Flow	Cooling Air Flow		

<sup>(</sup>f) 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.



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#### **CONTROLLER SPECIFICATIONS** Controller Make & Model DeepSea 6120 MRS / AMF (optional) **Operation Mode** Graphic Back-lit LCD (128x64) pixles Display Ingress Protection Rating **IP65** Binary Inputs/Outputs 6/4 **Analog Inputs** Measurement Vac, A, Hz, kVA, kW, Vdc Event Log Alarms log, Hrs log

**USB** 

ENCLOSURE SPECIFICATIONS					
Enclosure Type	c & Weather Proof				
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection R	IP23				
Lifting	ISO Standard Lifting				
Emergency	External Emergency Push Butto				
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	86.2 dB(A)				

## **GENSET DIMENSIONS & WEIGHT**

Communication

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3505	1500	2133	955	4250	4300
CLOSE	5205	1824	2805	1225	5250	5300

### 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.

Heavy 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 comprehensive 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 separator Fuel Filter

Remote Annunciator





#### **Application**

Infrastructure, Industrial, Residential, Telecom, Defence, Mining, Agriculture