

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 2000C

POWERED BY Industrial Generating Set



MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 2000C	1800 / 60	480 / 277	1819 kVA / 1455 kWe	2000 kVA / 1600 kWe

ENGINE SPECIFICA	TIONS		FUEL SYSTEM				
Rated Output (PRP) (1) 1575 kW _m			Fuel Filter: Spin on full flow filter with water separator				
Rated Output (ESP) (2)		1750 kW _m	Recommended Fuel		Class A2 Diesel		
Engine Make & Model		Cummins QSK50-G6	Fuel Consumption Sta	andby	431.0 L/hr/113.8 US gal/h		
No. of Cylinders		16 Cylinder, Vee Type	Fuel Consumption 100	% PRP	PRP 392.0 L/hr/103.5 US gal		
Cycle		4 Strokes	Fuel Consumption 75%	ption 75% PRP 303.0 L/hr / 80.0 US g		/ 80.0 US gal/hr	
Aspiration		Turbocharged and Aftercooled	Fuel Consumption 50%	Fuel Consumption 50% PRP 224.0 L/hr / 59.1 U		/ 59.1 US gal/hr	
Cooling Method		Water	EXHAUST SYSTEM				
Governing Type		Electronic	Muffler Type	Muffler Type		Industrial Grade	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure	Max. Back Pressure		6.8 kPa	
Compression Ratio		15.0 : 1.0	Exhaust Gas Flow (PR	Exhaust Gas Flow (PRP/ESP) 328.62 /		348.18 m³/min	
Displacement		50.3 L / 3067 in ³	Exhaust Gas Tempe	Exhaust Gas Temperature (PRP/ESP) 488 / 518 °C			
Bore/Stroke (mm / in)		(159/159)/(6.25/6.25)	ALTERNATOR SPE	ALTERNATOR SPECIFICATIONS			
Battery and Charger Alternator		24 VDC starter motor	Rated Output (Prime)	Rated Output (Prime) (1)		Кvа	
AIR SYSTEM			Rated Output (Stand	Rated Output (Stand by) (2)		:VA	
Air Filter Type		Dry Element	Alternator Make & Mo	Alternator Make & Model		PI734C/ S7L1D-	
Combustion Air Flow ((PRP)	132.42 m³/min	Number of Poles	Number of Poles			
Combustion Air Flow ((ESP)	135.3 m³/min	Number of Winding Lo	Number of Winding Leads			
Radiator Air Flow		TBD	Type of Bearing	Type of Bearing		Single	
COOLING SYSTEM			Insulation Class / Tem	Insulation Class / Temp Rise		H/H	
Total Coolant Capacity	y	140.1 L	Efficiency	Efficiency 95.3%			
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Ra	Ingress Protection Rating IP 23			
Radiator Fan Load		TBD	Excitation System	Excitation System		Separately Excited by P.M.G	
Heat Radiation to Room (PRP)		158 Kw	AVR Model	Stamfo	rd - MX341		
Heat Radiation to Room (ESP) 173 kW		173 kW	ALTERNATOR OPERATING DATA				
LUBRICATION SYSTEM		Overspeed	Overspeed		2250 r.p.m		
Oil Filter Type	Oil Filter Type Spir		Voltage Regulation		± 1.0 %		
Total Oil Capacity		234.7 L / 62.0 US gal.	Wafeform distortion	Wafeform distortion		No load <1.5% Linear load <5%	
Oil Pan		204.4 L / 54.0 US gal.	Radio Interface	Standa	rd EN6100	0-6-2:2001	
Oil Type API CH4/		/CI4; SAE 15W-40	Cooling Air Flow	Cooling Air Flow 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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CONTROLLER SPECIFICATIONS

Controller Make & M	DeepSea 6120		
Operation Mode	Operation Mode		
Display	Display Graphic Back		
Ingress Protection Rating		IP65	
Binary Inputs/Output	6 / 4		
Analog Inputs	4		
Measurement	Measurement Vac, A, H		
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	IP23		
Lifting	ISO Standard Lifting		
Emergency	External E	mergency Push Button	
Canopy RAL Color	RAL 2000		
Baseframe RAL Col	RAL 9011		
Noise Pressure leve	88 dB(A)		

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	6000	2519	3384	-	15400	15480
CLOSE	12000	3600	4780	-	26900	26980

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

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





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