

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.



شركة الأداء العالمي للصناعية High Performance Industry Power Generators

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PI 1000C

Industrial Generating Set

POWERED BY



MODEL	rpm / Hz	VOLTAGE	PRIME ⁽¹⁾		STANDBY ⁽²⁾
PI 1000C	1800 / 60	480 / 277	909.0 kVA / 727.2 kWe	!	1000.0 kVA / 800.0 kWe
ENGINE SPECI	ICATIONS		FUEL SYSTEM		
Rated Output (P	RP) ⁽¹⁾	809 kWm	Fuel Filter: Spin on full flow filter with water separator		with water separator
Rated Output (E	SP) ⁽²⁾	895 kW _m	Recommended Fuel		Class A2 Diesel
Engine Make & I	Vodel	Cummins QSK23-G3	Fuel Consumption Standby		212.0 L/hr / 56.1 US gal/h
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		189.0 L/hr / 49.8 US gal/h
Cycle		4 Strokes	Fuel Consumption 75% PRP		139.0 L/hr / 36.7 US gal/h
Aspiration		Turbocharged and Charge Air cooled	Fuel Consumption 50% PRP		97.0 L/hr / 25.7 US gal/hi
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Electronic	Muffler Type		Industrial Grade
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		10.16 kPa
Compression Ra	tio	16.0 : 1.0	Exhaust Gas Flow (PRP/ESP)		166.38 / 183.36 m ³ /mi
Displacement		23.15 L / 1413 in ³	Exhaust Gas Temperature (PRP/ESP) 467 / 514 °C		
Bore/Stroke (mm / in)		(170/170)/(6.69/6.69)	ALTERNATOR SPECIFICATIONS		
Battery and Charger Alternator		24 VDC, 35 Amp	Rated Output (Prime) ⁽¹⁾		1125.0 kVA
AIR SYSTEM			Rated Output (Stand by) ⁽²⁾		1219.0 kVA
Air Filter Type		Dry Element	Alternator Make & Model		Stamford HCI634H/ S6L1D-D
Combustion Air I	Flow (PRP)	65.64 m ³ /min	Number of Poles		4
Combustion Air I	Flow (ESP)	67.92 m ³ /min	Number of Winding Leads		12
Radiator Air Flov	V	996 m ³ /min	Type of Bearing		Single
COOLING SYST	EM		Insulation Class / Temp Rise		Н/Н
Total Coolant Ca	apacity	46.5 L / 12.3 US gal	Efficiency		95.0%
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Loa	ad	24.2 Kw	Excitation System		Separately Excited by P.M.G
Heat Radiation to Room (PRP)		76 Kw	AVR Model Stamfor		rd - MX321
Heat Radiation to Room (ESP)		85 kW	ALTERNATOR OPE	RATING	DATA
	SYSTEM		Overspeed		2250 r.p.m
Oil Filter Type Spin		on full flow filter	Voltage Regulation		± 0.5 %
Total Oil Capacity		103.0 L / 27.0 US gal.	Wafeform distortion		No load <1.5% Linear load <5%
Oil Pan		95.0 L / 25.0 US gal.	Radio Interface Standa		ard EN61000-6-2:2001
		CI4; SAE 15W-40	Cooling Air Flow		1.961 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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CONTROL	LER SPECIFICATIONS
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Controller Make & M	DeepSea 6120		
Operation Mode	MRS / AMF (optional)		
Display Graphic Back		k-lit LCD (128x64) pixles	
Ingress Protection R	IP65		
Binary Inputs/Output	6 / 4		
Analog Inputs	4		
Measurement	Vac, A, Hz, kVA, kW, Vdc		
Event Log	Event Log Alarms lo		
Communication	USB		

ENCLOSURE SPECIFICATIONS					
Enclosure Type	Acoustic & Weather Proof				
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection R	IP23				
Lifting	_ifting ISO Star				
Emergency External E		mergency Push Button			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	85 dB(A)				

GENSET DIMENSIONS & WEIGHT						
GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	4150	1769	2440	1455	6700	6770
CLOSE	20 feet container		2300	9400	9450	

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.

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,

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.



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