



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 للصناعة **High Performance Industry** Power Generators

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# PI 375C

**Industrial Generating Set** 

POWERED BY



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MODEL rpm / Hz		VOLTAGE	PRIME <sup>(1)</sup>		STANDBY <sup>(2)</sup>		
PI 375C 1800 / 60		480 / 277	344.0 kVA / 275.0 kWe	)	375.0 kVA / 300.0 kWe		
ENGINE SPEC			FUEL SYSTEM				
Rated Output (		307 kW <sub>m</sub>		l flow filter	with water ser	arator	
Rated Output (		355 kW <sub>m</sub>	Fuel Filter: Spin on full flow filter with water separator           Recommended Fuel         Class A2 Diese				
Engine Make &	,	Cummins QSL9-G5			89.0 L/hr / 23.6 US gal/hr		
No. of Cylinders		6 Vertical In-line	· · · · · · · · · · · · · · · · · · ·			75.0 L/hr / 19.9 US gal/hr	
Cycle	2	4 Strokes	Fuel Consumption 100% PRP Fuel Consumption 75% PRP		-		
•		Turbocharged and				55.0 L/hr / 14.4 US gal/hr	
Aspiration		Charge Air Cooled	Fuel Consumption 50% PRP 36.0 L/hr / 9.6 US		.6 US gal/hr		
Cooling Method		Water	EXHAUST SYSTEM		I		
Governing Type		Electronic		Muffler Type		Industrial Grade	
Governing Clas		G2 - ISO 8528 Part 1	Max. Back Pressure		10.13 kPa		
Compression R	atio	16.8 : 1.0	Exhaust Gas Flow (PRP/ESP) 55.8		55.8/64.	8 m³/min	
Displacement		8.8 L / 543 in <sup>3</sup>	Exhaust Gas Temperature (PRP/ESP) 500 / 580 °C			500 / 580 °C	
Bore/Stroke (mm / in)		(114/145)/(4.49/5.69)	ALTERNATOR SPECIFICATIONS				
Battery and Cha	rger Alternator	24 VDC, 70 Amp	Rated Output (Prime) <sup>(1)</sup>		375.0 kVA	4	
AIR SYSTEM			Rated Output (Stand by) <sup>(2)</sup>		400.0 kVA	ł	
Air Filter Type		Dry Element	Alternator Make & Model		Stamford HCI444D/Se	4L1D-D	
Combustion Air	Flow (PRP)	23.4 m <sup>3</sup> /min	Number of Poles		4		
Combustion Air	Flow (ESP)	24.6 m <sup>3</sup> /min	Number of Winding Leads		12		
Radiator Air Flow		480 m <sup>3</sup> /min	Type of Bearing		Single		
COOLING SYS	TEM		Insulation Class / Temp Rise		Н/Н		
Total Coolant C	apacity	11 L / 2.9 US gal	Efficiency S		93.0%		
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating IP		IP 23		
Radiator Fan Load		11 kW	Excitation System		Self Excite	ed	
Heat Radiation to Room (PRP)		35 Kw	AVR Model Stamfo		rd – AS440		
Heat Radiation to Room (ESP)		40 kW	ALTERNATOR OPERATING DATA				
	SYSTEM		Overspeed		2250 r.p.n	n	
Oil Filter Type Spin		on full flow filter	Voltage Regulation		± 1.0 %		
Total Oil Capacity		26.5 L / 7 US gal.	Wafeform distortion		No load <1.5% Linear load <5%		
Oil Pan		22.7 L / 6.0 US gal.	Radio Interface Standard EN610				
Oil Type	API CH4/	CI4; SAE 15W-40	Cooling Air Flow 0.99 m <sup>3</sup> /sec		ec		

<sup>(1)</sup> **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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Industrial Generating Set

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

ENCLOSURE SPECIFICATIONS				
Enclosure Type	Acoustic & Weather Proof			
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection R	IP23			
Lifting ISO Stan		idard Lifting		
Emergency External E		mergency Push Button		
Canopy RAL Color	RAL 2000			
Baseframe RAL Col	RAL 9011			
Noise Pressure leve	77.2 dB(A)			

GENSET DIMENSIO	GHT					
GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	2850	1145	2042	664	2500	2550
CLOSE	4411	1464	2219	720	3170	3220

## 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 advanced 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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