

- 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.
- O Breaker complise with IEC 60947-2.



PRECISION INDUSTRIES

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MODEL rpm / Hz   PI 1125C 1800 / 60		VOLTAGE	PRIME <sup>(1)</sup>	STANDBY <sup>(2)</sup>	
		480 / 277	1025 kVA / 820 kWe	1125 kVA / 900 kWe	
ENGINE SPECIFICATIONS			FUEL SYSTEM		
Rated Output (PRP) <sup>(1)</sup>		910 kW <sub>m</sub>	Fuel Filter: Spin on full flow filter with water separator		
Rated Output (ESP) (2)		1000 kW <sub>m</sub>	Recommended Fuel	Class A2 Diesel	
Engine Make & Model		Cummins KTA38-G3	Fuel Consumption St	andby 238.0 L/hr / 62.9 US gal/h	
No. of Cylinders		12 Cylinder, 60° Vee	Fuel Consumption 100	% PRP 217.0 L/hr / 57.2 US gal/l	
Cycle		4 Strokes	Fuel Consumption 75%	6 PRP 168.0 L/hr / 44.3 US gal/	
Aspiration		Turbocharged and After-cooled	Fuel Consumption 50%	6 PRP 119.0 L/hr / 31.4 US gal/	
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type	Э	Electronic	Muffler Type	Industrial Grade	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure	10.13 kPa	
Compression R	atio	13.9 : 1.0	Exhaust Gas Flow (PR	P/ESP) 182.4 / 196.2 m <sup>3</sup> /min	
Displacement		37.8 L / 2300 in <sup>3</sup>	Exhaust Gas Temperature (PRP/ESP) 470 / 4		
Bore/Stroke (mm / in)		(159/159)/(6.25/6.25)	ALTERNATOR SPECIFICATIONS		
Battery and Charger Alternator		24 VDC, 35 Amp	Rated Output (Prime)	<sup>(1)</sup> 1125.0 kVA	
AIR SYSTEM			Rated Output (Stand	by) <sup>(2)</sup> 1188.0 Kva	
Air Filter Type		Dry Element	Alternator Make & Mo	odel Stamford HCI634H/ S6L1D-D	
Combustion Air	Flow (PRP)	75.9 m <sup>3</sup> /min	Number of Poles	4	
Combustion Air	Flow (ESP)	80.4 m <sup>3</sup> /min	Number of Winding L	eads 12	
Radiator Air Flo	W	1464 m <sup>3</sup> /min	Type of Bearing	Single	
COOLING SYS	TEM		Insulation Class / Tem	p Rise H / H	
Total Coolant C	Capacity	124 L / 32.7 US gal	Efficiency	95.1%	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Ra	Iting IP 23	
Radiator Fan Load		35 kW	Excitation System	Separately Excited by P.M.C	
Heat Radiation to Room (PRP)		130 Kw	AVR Model	Stamford - MX321	
Heat Radiation to Room (ESP)		140 kW	ALTERNATOR OPERATING DATA		
LUBRICATION SYSTEM			Overspeed	2250 r.p.m	
Oil Filter Type Spin		on full flow filter	Voltage Regulation	± 0.5 %	
Total Oil Capacity		135.0 L / 35.7 US gal	Wafeform distortion	No load <1.5% Linear load <5%	
Oil Pan		114.0 L / 30.0 US gal	Radio Interface	Standard EN61000-6-2:2001	
Oil Type API CH4/		CI4; SAE 15W-40	Cooling Air Flow	1.961 m <sup>3</sup> /sec	

<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.





# PI 1125C Industrial Generating Set





CONTROLLER SPECIFICATIONS					
Controller Make & M	DeepSea 6120				
Operation Mode	MRS / AMF (optional)				
Display	-lit LCD (128x64) pixles				
Ingress Protection F	IP65				
Binary Inputs/Outpu	6 / 4				
Analog Inputs	4				
Measurement Vac, A		z, 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	IP23					
Lifting	ISO Stand	dard Lifting				
Emergency External E		Emergency Push Button				
Canopy RAL Color	RAL 2000					
Baseframe RAL Co	RAL 9011					
Noise Pressure lev	87 dB(A)					

#### GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	4500	2000	2500	-	7500	7550
CLOSE	20 Feet container		-	7900	8000	

## 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.

#### **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

#### Application

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

## 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.





