

- 18001:2007. 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.
- O Breaker complise with IEC 60947-2.



PRECISION INDUSTRIES

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PI 3125C Industrial Generating Set

POWERED BY Rev : 1

cumm

MODEL PI 3125C	rpm / Hz 1800 / 60	VOLTAGE 480 / 277	PRIME ⁽¹⁾ 2844 kVA / 2275 kWe	STANDBY ⁽²⁾ 3125 kVA / 2500 kWe	
ENGINE SPEC	IFICATIONS		FUEL SYSTEM		
Rated Output (PRP) (1)		2502 kW _m	Fuel Filter: Spin on full f	full flow filter with water separator	
Rated Output (ESP) ⁽²⁾		2763 kW _m	Recommended Fuel	Class A2 Diesel	
Engine Make &	Model	Cummins QSK78-G7	Fuel Consumption Star	ndby 672.0 L/hr / 177.6 US gal/h	
No. of Cylinders	3	18 Cylinder, Vee Type	Fuel Consumption 100%	611.0 L/hr /161.4 US gal/h	
Cycle		4 Strokes	Fuel Consumption 75%	PRP 475.0 L/hr / 125.6 US gal/h	
Aspiration		Turbocharged and Aftercooled	Fuel Consumption 50%	PRP 345.0 L/hr / 91.2 US gal/hr	
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type	;	Electronic	Muffler Type	Industrial Grade	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure	7.0 kPa	
Compression Ratio		15.3 : 1.0	Exhaust Gas Flow (PRP	/ESP) 517.38 / 550.8 m ³ /min	
Displacement		77.6 L / 4735 in ³	Exhaust Gas Temperature (PRP/ESP) 432 / 4		
Bore/Stroke (mm / in)		(170/190) / (6.69/7.48)	ALTERNATOR SPECIFICATIONS		
Electrical Starting System		24 VDC starter motor	Rated Output (Prime) (¹⁾ 3350.0 kVA	
AIR SYSTEM			Rated Output (Stand by	y) ⁽²⁾ 3585 .0 kVA	
Air Filter Type		Dry Element	Alternator Make & Mod	lel Stamford LV 804 S	
Combustion Air	Flow (PRP)	230.82 m ³ /min	Number of Poles	4	
Combustion Air	Flow (ESP)	236.22 m ³ /min	Number of Winding Le	ads 6	
Radiator Air Flo	W	TBD	Type of Bearing	Single	
COOLING SYS	ТЕМ		Insulation Class / Temp	Rise H / H	
Total Coolant C	apacity	166.6 L / 176 US qts	Efficiency	95.9%	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rati	ng IP 23	
Radiator Fan Load		TBD	Excitation System	Separately Excited by P.M.G	
Heat Radiation to Room (PRP)		245 Kw	AVR Model	Stamford - MA330	
Heat Radiation to Room (ESP)		271 kW	ALTERNATOR OPER	ATING DATA	
LUBRICATION SYSTEM			Overspeed	2250 r.p.m	
Oil Filter Type Spin		on full flow filter	Voltage Regulation	± 0.5 %	
Total Oil Capac	ity	465.6 L /123 US gal.	Wafeform distortion	No load <1.5% Linear load <3%	
Oil Pan		412.0 L /109 US gal.	Radio Interface	Standard EN61000-6-2:2001	
Oil Type API CH4/		/CI4; SAE 15W-40	Cooling Air Flow	3.7 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.





PI 3125C

Industrial Generating Set

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CONTROLLER SPECIFICATIONS								
Controller Make & N	DeepSea 7320 MKII							
Operation Mode	Auto Main Failure (AMF)							
Display	Display Graphic Back							
Ingress Protection F	IP65							
Binary Inputs/Outpu	8/6							
Analog Inputs	6							
Measurement Vac, A, Hz, H		/A, kVAR, kW, kWh, Vdc						
Event Log	Alarms log, Hrs log							
Communication	USB, RS232, RS485							

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	90 dB(A)				

GENSET DIMENSIO	GHT					
GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	7300	2750	3600	-	24000	24100
CLOSE	12000	3600	4780	-	36000	36100

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,

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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.

