

- 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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POWERED BY Rev:1



MODEL rpm / Hz		VOLTAGE	PRIME ⁽¹⁾	STANDBY ⁽²⁾	
PI 1250C	1800 / 60	480 / 277	1150 kVA / 920 kWe	1250 kVA / 1000 kWe	
ENGINE SPECIFICATIONS			FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾		1007 kW _m	Fuel Filter: Spin on full	I flow filter with water separator	
Rated Output (ESP) (2)		1111 kW _m	Recommended Fuel	Class A2 Diesel	
Engine Make & Model		Cummins QST30-G4	Fuel Consumption Sta	andby 267.0 L/hr / 70.5 US gal/ł	
No. of Cylinders		12 Cylinder, 50° Vee	Fuel Consumption 100	0% PRP 240.0 L/hr / 63.3 US gal/h	
Cycle		4 Strokes	Fuel Consumption 75%	% PRP 177.0 L/hr / 46.7 US gal/l	
Aspiration		Turbocharged and Low Temperature Aftercooled	Fuel Consumption 50%	% PRP 119.0 L/hr / 31.5 US gal/l	
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Electronic	Muffler Type	Industrial Grade	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure	6.8 kPa	
Compression Ratio		14.0 : 1.0	Exhaust Gas Flow (PR	P/ESP) 197.1 / 220.2 m ³ /min	
Displacement		30.48 L / 1860 in ³	Exhaust Gas Temperature (PRP/ESP) 495 / 52		
Bore/Stroke (mm / in)		(140/165)/(5.51/6.50)	ALTERNATOR SPECIFICATIONS		
Battery and Charger Alternator		24 VDC, 35 Amp	Rated Output (Prime)	⁽¹⁾ 1438.0 kVA	
NR SYSTEM			Rated Output (Stand	by) ⁽²⁾ 1525.0 kVA	
Air Filter Type		Dry Element	Alternator Make & Mo	odel Stamford HCI634K/ S6L1D-F	
Combustion Air Fl	low (PRP)	75.0 m ³ /min	Number of Poles	4	
Combustion Air Fl	low (ESP)	80.4 m ³ /min	Number of Winding L	eads 12	
Radiator Air Flow		1024.2 m ³ /min	Type of Bearing	Single	
COOLING SYSTE	EM		Insulation Class / Tem	p Rise H / H	
Total Coolant Cap	pacity	79 L / 21 US gal	Efficiency	95.4%	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Ra	ating IP 23	
Radiator Fan Load		42 kW	Excitation System	Separately Excited by P.M.C	
Heat Radiation to Room (PRP)		115 Kw	AVR Model Stamford - MX321		
Heat Radiation to Room (ESP)		130 kW	ALTERNATOR OPERATING DATA		
UBRICATION SYSTEM			Overspeed	2250 r.p.m	
Oil Filter Type Spin		on full flow filter	Voltage Regulation	± 0.5 %	
Total Oil Capacity		154.0 L / 40.7 US gal	Wafeform distortion	No load <1.5% Linear load <5%	
Oil Pan		133.0 L / 35.0 US gal	Radio Interface	Standard EN61000-6-2:2001	
Oil Type API CH4/		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.





PI 1250C 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	Acoust	ustic & Weather Proof				
Anticorrosive Protection						
Polyester Powder Coated Galvanized Sheet						
Ingress Protection	IP23					
Lifting	ISO Standard Lifting					
Emergency External E		Emergency Push Button				
Canopy RAL Color	RAL 2000					
Baseframe RAL Co	RAL 9011					
Noise Pressure lev	86 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	2284	2640	-	7500	7560
CLOSE	20 Feet container		-	10900	10960	

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.





