

## 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.













rpm / Hz

**MODEL** 

# PI 1250C

## **Industrial Generating Set**

PRIME (1)

**VOLTAGE** 

**POWERED BY** 



STANDBY (2)

PI 1250C 1800 / 60		480 / 277	480 / 277 1160 kVA / 928 kWe		1276 kVA / 1020 kWe	
ENGINE SPECIFIC	ATIONS		FUEL SYSTEM			
Rated Output (PRP	) <sup>(1)</sup>	1007 kW <sub>m</sub>	Fuel Filter: Spin on full flow filter with water separator			eparator
Rated Output (ESP)	) (2)	1112 kW <sub>m</sub>	1112 kW <sub>m</sub> Recommended Fuel		Class A2 Diesel	
Engine Make & Model		Cummins KTA38-G14	Fuel Consumption Standby		266.0 L/hr / 70.2 US gal/hr	
No. of Cylinders		12 Cylinder, 60° Vee	Fuel Consumption 100% PRP		242.0 L/hr / 63.7 US gal/hr	
Cycle		4 Strokes	Fuel Consumption 75% PRP		189.0 L/hr / 49.9 US gal/hr	
Aspiration		Turbocharged and After-cooled	Fuel Consumption 50% PRP		136.0 L/hr / 36.1 US gal/hr	
Cooling Method		Water	EXHAUST SYSTEM			
Governing Type	Governing Type		Muffler Type		Industrial Grade	
Governing Class	Governing Class		Max. Back Pressure		10.13 kPa	
Compression Ratio		13.9 : 1.0	Exhaust Gas Flow (PRP/ESP)		218.46/	238.02 m <sup>3</sup> /min
Displacement	Displacement		Exhaust Gas Temperature (F		PRP/ESP)	499 / 524°C
Bore/Stroke (mm / in)		(159/159)/(6.25/6.25)	ALTERNATOR SPECIFICATIONS			
Battery and Charger Alternator		24 VDC, 35 Amp	Rated Output (Prime) (1)		1300.0 k	VA
AIR SYSTEM			Rated Output (Stand by) (2)		1400.0 kVA	
Air Filter Type		Dry Element	Alternator Make & Model		Stamford I S6L1D-E4	HCI634J/
Combustion Air Flow (PRP)		81.54 m <sup>3</sup> /min	Number of Poles		4	
Combustion Air Flow (ESP)		86.1 m <sup>3</sup> /min	Number of Winding Leads		12	
Radiator Air Flow		1476 m³/min	Type of Bearing		Single	
COOLING SYSTEM			Insulation Class / Temp Rise		H/H	
Total Coolant Capac	city	124 L / 30.7 US gal	Efficiency		95.3%	
Water Pump Type	Water Pump Type		Ingress Protection Rating		IP 23	
Radiator Fan Load	Radiator Fan Load		Excitation System		Separately E	xcited by P.M.G
Heat Radiation to Ro	Heat Radiation to Room (PRP)		AVR Model Stamfo		ord - MX321	
Heat Radiation to Ro	om (ESP)	163 kW	<b>ALTERNATOR OPERATING</b>		DATA	
LUBRICATION SYSTEM		Overspeed		2250 r.p.	m	
Oil Filter Type	Oil Filter Type Spin		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 Standa		ard EN61000-6-2:2001	
Oil Type API CH4		/CI4; SAE 15W-40	Cooling Air Flow	Cooling Air Flow		³/sec
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<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 1250C

## **Industrial Generating Set**



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

**USB** 

ENCLOSURE SPECIFICATIONS							
Enclosure Type	Acoustic & 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	4570	2284	3037	-	7500	7550
CLOSE	20 Feet container		-	10900	10950	

#### 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.

Communication

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.

#### 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.

## **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

# emote Annunciator

#### **Application**

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



