PI 1250C

Rev-1

Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 1250C	1500 / 50	400 / 230	N.A	1230 kVA / 984 kWe

Full rated power available upto 100 meter elevation at ambient of 27degC, for other temperature and altitude limits please consult application team.

Rated Output (PRP)	N.A			
Rated Output (ESP)	1089 kW _m			
Engine Make & Mod	Cummins KTA38-G9			
No. of Cylinders	12 Cylinder, 60° Vee			
Cycle	4 Strocks			
Aspiration	Turbocharged and After-cooled			
Cooling Method	Water			
Governing Type	Governing Type			
Governing Class	G2 - ISO 8528 Part 1			
Compression Ratio	13.9 : 1.0			
Displacement	37.8 L / 2300 in ³			
Bore/Stroke (mm / in)	Bore/Stroke (mm / in)			
Battery and Charger	Alternator	24 VDC, 35 Amp		
AIR SYSTEM				
Air Filter Type	Dry Element			
Combustion Air Flow	N.A			
Combustion Air Flov	78.54 m ³ /min			
Radiator Air Flow	1134 m³/min			
COOLING SYSTEM	Л			
Total Coolant Capad	city	199.0 L / 52.70 US gal		
Water Pump Type	Water Pump Type			
Radiator Fan Load	45 kW			
Heat Radiation to Ro	N.A			
Heat Radiation to Ro	154 kW			
LUBRICATION SYSTEM				
LUBRICATION SYS				
LUBRICATION SYS	STEM	on full flow filter		
	STEM	on full flow filter 135.0 L / 35.7 US gal.		
Oil Filter Type	STEM			

Fuel Filter: Spin on full flow filter with water separator				
Recommended Fuel	Class A2 Diesel			
Fuel Consumption Standby				
Fuel Consumption 100%	256.0 L/hr / 67.4 US gal/hr			
Fuel Consumption 75%	196.0 L/hr / 51.7 US gal/hr			
Fuel Consumption 50%	137.0 L/hr / 36.0 US gal/hr			
EXHAUST SYSTEM				
Muffler Type	Residential Grade			
Max. Back Pressure	10.13 kPa			
Exhaust Gas Flow	212.4 m ³ /min			
Exhaust Gas Temperature 529 °C				
ALTERNATOR SPECIFICATIONS				
Rated Output (Prime) (1)	1150.0 kVA			
Rated Output (Stand by) (2)	1230.0 kVA			
Alternator Make & Model	Stamford S6L1D-F4			

Rated Output (Stand	1230.0 kVA		
Alternator Make & Model		Stamford S6L1D-F4	
Number of Poles		4	
Number of Winding Leads		6 lead std / 12 optional	
Type of Bearing		Single	
Insulation Class / Temp Rise		H/H	
Efficiency		95.2%	
Ingress Protection Rating		IP 23	
Excitation System		Separately Excited by P.M.G	
AVR Model	Stamford - MX321		

ALTERNATOR OPERATING DATA				
Overspeed	2250 r.p.m			
Voltage Regulation	± 1.0 %			
Wafeform distortion	No load <1.5% Linear load <5%			
Radio Interface	Standard EN61000-6-2:2001			
Cooling Air Flow	2.69 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 & Model		DeepSea 6120	
Operation Mode		MRS / AMF (optional)	
Display	Graphic Back	-lit LCD (128x64) pixles	
Ingress Protection Rating		IP65	
Binary Inputs/Outputs		8 / 6	
Analog Inputs		4	
Measurement	Vac, A, H	z, kVA, kW, Vdc	
Event Log	Alarms log, Hrs log		
Communication		USB	

ENCLOSURE SPECIFICATIONS			
Enclosure Type Acoust		ic & Weather Proof	
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection Rating		IP22	
Lifting	ISO Stand	dard Lifting	
Emergency	External E	Emergency Push Button	
Canopy RAL Color		RAL 9001	
Baseframe RAL Color		RAL 9011	
Noise Pressure level @ 7m		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	4580	2100	2455	-	8420	8520
CLOSE	20 Feet container		-	10900	10970	

STANDARD MECHANICAL FEATURES

Genset design provides a low noise level with an optimized performance of the ventilation and exhaust systems at 50 $^{\circ}$ 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.

Residential Grade Muffler with rain cap.

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.

OPTIONAL FEATURES

Advanced Controllers are available on request.

4 poles manual / Motorized Circuit breaker

Jacket water pre-heater

Static Battery Charger

Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator



Application

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

Address: 24b St., Community 365 Al Quoz Ind. 2, Dubai, UAE | Tel: +971 4 338 4033 | Fax: +971 4 338 3997



