



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.



High شـركة الأداء العالـي للصناعـة Performance Industry Power Generators

INFO@HPI-SA.COM I WWW.HPI-SA.COM



PI 250C

POWERED BY

Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME ⁽¹⁾		STANDBY ⁽²⁾	
PI 250C	1800 / 60	480 / 277	225.0 kVA / 180.0 kWe		250.0 kVA / 200.0 kW	
NGINE SPEC	IFICATIONS		FUEL SYSTEM			
Rated Output (PRP) (1)		208 kW _m	Fuel Filter: Spin on full flow filter with water separator		water separator	
Rated Output (ESP) ⁽²⁾	242 kWm	Recommended Fuel Class A2 Die		Class A2 Diesel	
Engine Make &	Model	Cummins QSB7-G5	Fuel Consumption Stan	on Standby 59.0 L/hr / 15.5 US		
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		50.0 L/hr / 13.3 US gal/hi	
Cycle		4 Strokes	Fuel Consumption 75% PRP		10.0 L/hr / 10.6 US gal/hi	
Aspiration		Turbocharged and Air to Air Aftercooled	Fuel Consumption 50% PRP 30.0 L/hr / 7.8 US		30.0 L/hr / 7.8 US gal/hr	
Cooling Method		Water	EXHAUST SYSTEM			
Governing Type	e	Electronic	Muffler Type		Industrial Grade	
Governing Clas	SS	G2 - ISO 8528 Part 1	Max. Back Pressure		10.2 kPa	
Compression Ratio		17.2: 1	Exhaust Gas Flow (PRP/ESP)		38.04 / 43.92 m ³ /min	
Displacement		6.69 L / 408 in ³	Exhaust Gas Temperature (PRP/ESP) 487/532 °C			
Bore/Stroke (m	m / in)	(107/124) / (4.21/4.88)	ALTERNATOR SPECI	FICATIO	NS	
Battery and Charger Alternator		12 VDC, 100 Amp	Rated Output (Prime) (1)		255.0 kVA	
AIR SYSTEM			Rated Output (Stand by) (2)		275.0 kVA	
Air Filter Type		Dry Element	Alternator Make & Model		Stamford UCI274H	
Combustion Air Flow (PRP)		15.36 m ³ /min	Number of Poles		4	
Combustion Air	r Flow (ESP)	16.14 m ³ /min	Number of Winding Leads		12	
Radiator Air Flo	W	379.2 m ³ /min	Type of Bearing		Single	
OOLING SYS	STEM		Insulation Class / Temp Rise		H/H	
Total Coolant C	Capacity	10.2 L / 2.7 US gal	Efficiency		93.4%	
Water Pump Ty	ype	Centrifugal Eng-Driven	Ingress Protection Rating		IP 23	
Radiator Fan L	oad	12.7 kW	Excitation System		Self-Excited	
Heat Radiation	to Room (PRP)	21 Kw	AVR Model Stamfor		I – AS440	
Heat Radiation to Room (ESP)		24 kW	ALTERNATOR OPERATING DATA		ATA	
UBRICATION	SYSTEM		Overspeed		2250 r.p.m	
Oil Filter Type Spin		on full flow filter	ull flow filter Voltage Regulation		± 1.0 %	
Total Oil Capacity		18.9 L / 5.0 US gal.			No load <1.5% _inear load <5%	
Oil Pan		17.4 L / 4.60 US gal.	Radio Interface Stand		d EN61000-6-2:2001	
Oil Type API CH4/		CI4; SAE 15W-40	Cooling Air Flow 0.617 m ³ /sec		0.617 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 250C

POWERED BY

Industrial Generating Set

Controller Make & M	DeepSea 6120		
Operation Mode	MRS / AMF (optional)		
Display	Graphic Back	k-lit LCD (128x64) pixles	
Ingress Protection R	IP65		
Binary Inputs/Output	6 / 4		
Analog Inputs	4		
Measurement	Vac, A, Hz, kVA, kW, Vdc		
Event Log Alarms lo		g, Hrs log	
Communication	USB		

ENCLOSURE SPECIFICATIONS					
Enclosure Type Acousti		ic & Weather Proof			
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection R	IP23				
Lifting	ISO Stan	dard Lifting			
Emergency External E		mergency Push Button			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	75.2 dB(A)				

GENSET DIMENSIONS & WEIGHT						
GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	2500	1100	1751	550	1950	2000
CLOSE	3893	1355	2209	430	2100	2150

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.

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 separator Fuel Filter

Remote Annunciator

Application

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

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.



Address: PO Box 4083, Dammam 34331, Kingdom of Saudi Arabi Tel: +966 13 8167179
<u>INFO@HPI-SA.COM</u> I <u>WWW.HPI-SA.COM</u>