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POWERED BY Rev : 1 cummins

MODEL rpm / Hz   PI 250C 1800 / 60		VOLTAGE	PRIME <sup>(1)</sup>	STANDBY <sup>(2)</sup>	
		480 / 277	225.0 kVA / 180.0 kWe	250.0 kVA / 200.0 kW	
ENGINE SPECIFICATIONS			FUEL SYSTEM		
Rated Output (PRP) <sup>(1)</sup>		208 kW <sub>m</sub>	Fuel Filter: Spin on full flow filter with water separator		
Rated Output (ESP) (2)		242 kW <sub>m</sub>	Recommended Fuel	Class A2 Diesel	
Engine Make & Model		Cummins QSB7-G5	Fuel Consumption Stand	dby 59.0 L/hr / 15.5 US gal/hr	
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100%	PRP 50.0 L/hr / 13.3 US gal/hr	
Cycle		4 Strokes	Fuel Consumption 75% F	PRP 40.0 L/hr / 10.6 US gal/hr	
Aspiration		Turbocharged and Air to Air Aftercooled	Fuel Consumption 50% P	PRP 30.0 L/hr / 7.8 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	10.2 kPa	
Compression Ratio		17.2 : 1	Exhaust Gas Flow (PRP/	ESP) 38.04 / 43.92 m <sup>3</sup> /min	
Displacement		6.69 L / 408 in <sup>3</sup>	Exhaust Gas Temperature (PRP/ESP) 487/532		
Bore/Stroke (mm / in)		(107/124) / (4.21/4.88)	ALTERNATOR SPECIFICATIONS		
Battery and Charger Alternator		12 VDC, 100 Amp	Rated Output (Prime) <sup>(1)</sup> 255.0 kVA		
NR SYSTEM			Rated Output (Stand by)	) <sup>(2)</sup> 275.0 kVA	
Air Filter Type		Dry Element	Alternator Make & Mode	el Stamford UCI274H	
Combustion Air	Flow (PRP)	15.36 m <sup>3</sup> /min	Number of Poles	4	
Combustion Air	Flow (ESP)	16.14 m <sup>3</sup> /min	Number of Winding Lea	ds 12	
Radiator Air Flo	W	379.2 m <sup>3</sup> /min	Type of Bearing	Single	
OOLING SYS	ТЕМ		Insulation Class / Temp F	Rise H / H	
Total Coolant C	apacity	10.2 L / 2.7 US gal	Efficiency	93.4%	
Water Pump Ty	ре	Centrifugal Eng-Driven	Ingress Protection Ratin	IP 23	
Radiator Fan Load		12.7 kW	Excitation System	Self Excited	
Heat Radiation to	o Room (PRP)	21 Kw	AVR Model	Stamford - AS440	
Heat Radiation to Room (ESP)		24 kW	ALTERNATOR OPERATING DATA		
UBRICATION SYSTEM			Overspeed	2250 r.p.m	
Oil Filter Type Spin		on full flow filter	Voltage Regulation	± 1.0 %	
Total Oil Capacity		18.9 L / 5.0 US gal.	Wafeform distortion	No load <1.5% Linear load <5%	
Oil Pan		17.4 L / 4.60 US gal.	Radio Interface	Standard EN61000-6-2:2001	
Oil Type API CH4/		CI4; SAE 15W-40	Cooling Air Flow	0.617 m <sup>3</sup> /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

<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 250C 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, H		z, kVA, kW, Vdc		
Event Log Alarms lo		g, Hrs log		
Communication	USB			

## **ENCLOSURE SPECIFICATIONS**

Enclosure Type	A
Anticorrosive Protec	tion

Acoustic & Weather Proof

Polyester Powder Coated Galvanized Sheet

Ingress Protection R	IP23		
Lifting ISO Star		ndard 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	3764	1155	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.

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.



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