

# PICM 1675C Industrial Generating Set



Rev-1

MODEL	rpm / Hz	VOLTAGE	PRIME <sup>(1)</sup>	STANDBY <sup>(2)</sup>
PICM 1675C	1500 / 50	400 / 230	1500 kVA / 1200 kWe	1675 kVA / 1340 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) <sup>(</sup>	Rated Output (PRP) <sup>(1)</sup> 1200 kW <sub>m</sub>		Fuel Filter: Spin on full flow filter with water separator				
Rated Output (ESP)	2)	1429 kW <sub>m</sub>	Recommended Fuel	Recommended Fuel		Class A2 Diesel	
Engine Make & Mode	el	Cummins KTA50-GS8	Fuel Consumption Standby		345.0 L/hr / 91.2 US gal/hr		
No. of Cylinders		16 Cylinder, 60° Vee	Fuel Consumption 100	Fuel Consumption 100% PRP		309.0 L/hr / 81.6 US gal/hr	
Cycle	Cycle		Fuel Consumption 75%	Fuel Consumption 75% PRP		238.0 L/hr / 62.8 US gal/hr	
Aspiration		Turbocharged & Low Temp. Aftercooled	Fuel Consumption 50%	Fuel Consumption 50% PRP		167.0 L/hr / 44.1 US gal/hr	
Cooling Method		Water	EXHAUST SYSTEM				
Governing Type		Electronic	Muffler Type		Residen	tial Grade	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		7.33 kPa	7.33 kPa	
Compression Ratio		14.9 : 1.0	Exhaust Gas Flow (PR	Exhaust Gas Flow (PRP/ESP) 242.28 / 26		261.0 m <sup>3</sup> /min	
Displacement		50.3 L / 3067 in <sup>3</sup>	Exhaust Gas Temperature		RP/ESP)	499 / 510 °C	
Bore/Stroke (mm / in) (159/159)/(6.25/6.25)			ALTERNATOR SPECIFICATIONS				
Battery and Charger Alternator		24 VDC, 35 Amp	Rated Output (Prime)	Rated Output (Prime) <sup>(1)</sup>		1650.0 Kva	
AIR SYSTEM			Rated Output (Stand	Rated Output (Stand by) <sup>(2)</sup>		1770.0 kVA	
Air Filter Type		Dry Element	Alternator Make & Mo	Alternator Make & Model		Stamford S7L1D-D41	
Combustion Air Flow	Combustion Air Flow (PRP)		Number of Poles	Number of Poles		4	
Combustion Air Flow	Combustion Air Flow (ESP)		Number of Winding Leads		6		
Radiator Air Flow	Radiator Air Flow		Type of Bearing	Type of Bearing		Single	
COOLING SYSTEM			Insulation Class / Tem	p Rise	H/H		
Total Coolant Capaci	ty	165.0 L / 43.5 US gal	Efficiency	Efficiency		95.5%	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Ra	Ingress Protection Rating		IP 23	
Radiator Fan Load		32 kW	Excitation System	Excitation System		Separately Excited by P.M.G	
Heat Radiation to Roo	m (PRP)	199 Kw	AVR Model	AVR Model Stamfo		ord - MX341	
Heat Radiation to Roo	Heat Radiation to Room (ESP) 210 kW		ALTERNATOR OPERATING DATA				
LUBRICATION SYS	ТЕМ		Overspeed		2250 r.p	.m	
Oil Filter Type Spin		n on full flow filter	Voltage Regulation		± 1.0 %		
Total Oil Capacity		204.0 L / 54.0 US gal.	Wafeform distortion		No load <1. Linear load		
Oil Pan		178.0 L / 47.0 US gal.	Radio Interface	Standa	ard EN61000-6-2:2001		
Oil Type	API CH4	/CI4; SAE 15W-40	Cooling Air Flow		2.69 m <sup>3</sup> /	sec	

<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.





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### CONTROLLER SPECIFICATIONS

Controller Make & M	DeepSea 6120MKIII		
Operation Mode	MRS / AMF (optional)		
Display	Graphic Back	-lit LCD (128x64) pixles	
Ingress Protection R	IP65		
Binary Inputs/Output	8/6		
Analog Inputs	4		
Measurement	Vac, A, Hz, kVA, kW, Vdc		
Event Log	Alarms log, Hrs log		
Communication	USB		

ENCLOSURE SPECIFICATIONS				
Enclosure Type Acousti		ic & Weather Proof		
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection R	IP22			
Lifting	ISO Standard Lifting			
Emergency	External Emergency Push Butt			
Canopy RAL Color	RAL 9001			
Baseframe RAL Col	RAL 9011			
Noise Pressure level @ 7m		88 dB(A)		

GENSET DIMENSIONS & WEIGHT						
GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	5830	2280	3065	NA	12700	13410
CLOSE	9209	2292	3615	NA	18400	18500

## 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.

Residential 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

Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annuciator

#### 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.

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

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info@pi-dubai.com | www.pi-dubai.com

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