







TUV NORD





Mechancial Power driven by



- Manufactured in facilities certified with ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007.
- O Manufactured in accordance to 8528-1 to 12.
- O Engine performance according to ISO 3046, BS 5514, DIN 6271.
- Alternator performance according to NEMA-MG1, BS 5000, DIN EN, relevant ISO, IEC60034.
- O Breaker complise with IEC 60947-2.





PI 1000C

Industrial Generating Set

POWERED BY

Chilitatus

Rev:1

MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 1000C	1800 / 60	480 / 277	909.0 kVA / 727.2 kWe	1000.0 kVA / 800.0 kWe

ENGINE SPECIFICATIONS			
Rated Output (PRP	809 kW _m		
Rated Output (ESP	895 kW _m		
Engine Make & Mod	Cummins QSK23-G3		
No. of Cylinders	6 Vertical In-line		
Cycle	4 Strokes		
Aspiration	Turbocharged and Charge Air cooled		
Cooling Method	Water		
Governing Type	Electronic		
Governing Class	G2 - ISO 8528 Part 1		
Compression Ratio	16.0 : 1.0		
Displacement		23.15 L / 1413 in ³	
Bore/Stroke (mm / in)	(170/170)/(6.69/6.69)		
Battery and Charger	24 VDC, 35 Amp		
AIR SYSTEM			
Air Filter Type	Dry Element		
All Filler Type		Dry Liement	
Combustion Air Flo	w (PRP)	65.64 m³/min	
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Combustion Air Flo	, ,	65.64 m ³ /min	
Combustion Air Flor	w (ESP)	65.64 m ³ /min 67.92 m ³ /min	
Combustion Air Flor Combustion Air Flor Radiator Air Flow	w (ESP)	65.64 m ³ /min 67.92 m ³ /min	
Combustion Air Flor Combustion Air Flor Radiator Air Flow COOLING SYSTEM	w (ESP)	65.64 m ³ /min 67.92 m ³ /min 996 m ³ /min	
Combustion Air Flor Combustion Air Flor Radiator Air Flow COOLING SYSTEM Total Coolant Capa	w (ESP)	65.64 m ³ /min 67.92 m ³ /min 996 m ³ /min 46.5 L / 12.3 US gal	
Combustion Air Flor Combustion Air Flor Radiator Air Flow COOLING SYSTEM Total Coolant Capa Water Pump Type	w (ESP) M city	65.64 m ³ /min 67.92 m ³ /min 996 m ³ /min 46.5 L / 12.3 US gal Centrifugal Eng-Driven	
Combustion Air Flor Combustion Air Flor Radiator Air Flow COOLING SYSTER Total Coolant Capa Water Pump Type Radiator Fan Load	w (ESP) M city poom (PRP)	65.64 m ³ /min 67.92 m ³ /min 996 m ³ /min 46.5 L / 12.3 US gal Centrifugal Eng-Driven 24.2 Kw	
Combustion Air Flor Combustion Air Flor Radiator Air Flow COOLING SYSTEM Total Coolant Capa Water Pump Type Radiator Fan Load Heat Radiation to Ro	w (ESP) M city Doom (PRP) Doom (ESP)	65.64 m³/min 67.92 m³/min 996 m³/min 46.5 L / 12.3 US gal Centrifugal Eng-Driven 24.2 KW 76 KW	
Combustion Air Flor Combustion Air Flor Radiator Air Flow COOLING SYSTER Total Coolant Capa Water Pump Type Radiator Fan Load Heat Radiation to Ro	w (ESP) City Doom (PRP) Doom (ESP) STEM	65.64 m³/min 67.92 m³/min 996 m³/min 46.5 L / 12.3 US gal Centrifugal Eng-Driven 24.2 KW 76 KW	
Combustion Air Flor Combustion Air Flor Radiator Air Flow COOLING SYSTER Total Coolant Capa Water Pump Type Radiator Fan Load Heat Radiation to Ro LUBRICATION SY	w (ESP) City Doom (PRP) Doom (ESP) STEM	65.64 m³/min 67.92 m³/min 996 m³/min 46.5 L / 12.3 US gal Centrifugal Eng-Driven 24.2 KW 76 KW 85 kW	
Combustion Air Flor Combustion Air Flor Radiator Air Flow COOLING SYSTER Total Coolant Capa Water Pump Type Radiator Fan Load Heat Radiation to Ro Heat Radiation to Ro LUBRICATION SY Oil Filter Type	w (ESP) City Doom (PRP) Doom (ESP) STEM	65.64 m³/min 67.92 m³/min 996 m³/min 46.5 L / 12.3 US gal Centrifugal Eng-Driven 24.2 KW 76 KW 85 kW	

303:0 KVA7 121:2 KVC		1000:0 KVA7 000:0 KVV		
FUEL SYSTEM				
Fuel Filter: Spin on full flow filter with water separator				
Recommended Fuel	Class A2 Diesel			
Fuel Consumption St	212.0 L/hr / 56.1 US gal/hi			
Fuel Consumption 100% PRP		189.0 L/hr / 49.8 US gal/hr		
Fuel Consumption 75% PRP		139.0 L/hr / 36.7 US gal/hr		
Fuel Consumption 50%	97.0 L/hr / 25.7 US gal/hr			
EXHAUST SYSTEM	0110	07.0 Z/III / 20.7 00 gawiii		
Muffler Type	Industrial Grade			
Max. Back Pressure				
Exhaust Gas Flow (PR	P/ESP)	166.38 / 183.36 m ³ /mir		
Exhaust Gas Temperature (PRP/ESP) 467 / 514 °C				
ALTERNATOR SPE	CIFICAT	TONS		
Rated Output (Prime)	1125.0 kVA			
Rated Output (Stand by) (2)		1188.0 kVA		
Alternator Make & Model		Stamford HCI634H/ S6L1D-D		
Number of Poles	Number of Poles			
Number of Winding L	eads	12		
Type of Bearing		Single		
Insulation Class / Tem	H/H			
Efficiency		95.1%		
Ingress Protection Rating		IP 23		
Excitation System		Separately Excited by P.M.G		
AVR Model	rd - MX321			
ALTERNATOR OPE	RATING	DATA		
Overspeed		2250 r.p.m		
Voltage Regulation		± 0.5 %		
Wafeform distortion		No load <1.5% Linear load <5%		
Radio Interface	Standa	rd EN61000-6-2:2001		
Cooling Air Flow	Cooling Air Flow			

⁽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 1000C

Industrial Generating Set



CONTROLLER SPECIFICATIONS

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

ENCLOSURE SPECIFICATIONS

Enclosure Type	Acoustic & Weather Proof		
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection R	IP23		
Lifting ISO Star		dard Lifting	
Emergency External E		mergency Push Button	
Canopy RAL Color	RAL 2000		
Baseframe RAL Color		RAL 9011	
Noise Pressure level @ 7m		85 dB(A)	

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	4150	1769	2440	1455	6700	6770
CLOSE	6543	2012	3231	2300	9100	9170

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.

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

Residential / Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator



Application

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

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