

PI 500C / PI 563C

Industrial Generating Set



MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 500C / PI 563C	1800 / 60	480/277	511.8 kVA / 409.4 kWe	563.0 kVA / 450.4 kWe

Full rated power available upto 100 meter elevation at ambient of 40degC, for other temperature and altitude limits please consult application team.

Tail rated power available t	ipto 100 moto	olovation at ambiont of Todo,	go, for other temperature and	
Rated Output (PRP) (1)		458 kW _m	Fuel Filter: Spin o	
Rated Output (ESP)) ⁽²⁾	504 kW _m	Recommended F	
Engine Make & Mod	del	Cummins M15-G8	Fuel Consumption	
No. of Cylinders	No. of Cylinders		Fuel Consumption	
Cycle		4 Strokes	Fuel Consumption	
Aspiration		Turbocharged and Charge air cooled	Fuel Consumption	
Cooling Method		Water	EXHAUST SYST	
Governing Type		Electronic	Muffler Type	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressu	
Compression Ratio		23:01	Exhaust Gas Flow	
Displacement		14.5 L	Exhaust Gas Ter	
Bore/Stroke (mm / i	Displacement Bore/Stroke (mm / in) Electrical Starting System R SYSTEM Air Filter Type		ALTERNATOR S	
Electrical Starting Sy	stem	24 VDC, Starter motor	Rated Output (Pri	
AIR SYSTEM			Rated Output (Sta	
Air Filter Type	Air Filter Type		Alternator Make &	
Combustion Air Flov	w (PRP)	32.1 m ³ /min	Number of Pole	
Combustion Air Flow	w (ESP)	33 m³/min	Number of Windin	
Radiator Air Flow		522 m ³ /min	Type of Bearing	
COOLING SYSTEM	VI		Insulation Class / 7	
Total Coolant Capa	city	83.1 L	Efficiency	
Water Pump Type	Water Pump Type		Ingress Protection	
Radiator Fan Load		18.8 kW	Excitation System	
Heat Radiation to Ro	om (PRP)	41 Kw	AVR Model	
Heat Radiation to Room (ESP)		46 kW	ALTERNATOR C	
LUBRICATION SY	STEM		Overspeed	
Oil Filter Type Spin		on full flow filter	Voltage Regulation	
Total Oil Capacity		57 L / 15.1 US gal.	Wafeform distorti	
Oil Pan	Oil Pan		Radio Interface	
Oil Type	Oil Type API CH4/		Cooling Air Flow	

Fuel Filter: Spin on full flow filter with water separator				
Recommended Fuel	Class A2 Diesel			
Fuel Consumption S	114 L/hr / 30 US gal/hr			
Fuel Consumption 100	103 L/hr / 27.1 US gal/hr			
Fuel Consumption 759	77 L/hr / 20.2 US gal/hr			
Fuel Consumption 50°	52 L/hr / 13.8 US gal/hr			
EXHAUST SYSTEM				
Muffler Type	Residential Grade			
Max. Back Pressure		10.0 kPa		
Exhaust Gas Flow (PF	77.1 / 82.62 m ³ /min			
Exhaust Gas Tempe	PRP/ESP) 404 / 444 °C			
ALTERNATOR SPECIFICATIONS				
Rated Output (Prime	Rated Output (Prime) (1)			
Rated Output (Stand	by) (2)	694 kVA		
Alternator Make & M	Stamford HCl544D			
Number of Poles	Number of Poles			
Number of Winding I	_eads	12		
Type of Bearing		Single		
Insulation Class / Tem	p Rise	H/H		
Efficiency		94.5%		
Ingress Protection R	IP 23			
Excitation System	Self Excited			
AVR Model	rd - AS440			
ALTERNATOR OPE	RATING	DATA		
Overspeed	2250 r.p.m			
Voltage Regulation	± 1.0 %			
Wafeform distortion	No load <1.5% Linear load <5%			
Radio Interface	BS EN 61			

⁽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.





4,VDE 0875G, VDE 0875N

1.312 m³/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



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CONTROLLER SPECIFICATIONS Controller Make & Model DeepSea 6120MKII Operation Mode MRS / AMF (optional) Graphic Back-lit LCD (128x64) pixles Display IP65 Ingress Protection Rating Binary Inputs/Outputs 8/6 4 **Analog Inputs** Measurement Vac, A, Hz, kVA, kW, Vdc Event Log Alarms log, Hrs log

ENCLOSURE SPECIFICATIONS			
Enclosure Type Acous		tic & Weather Proof	
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection F	IP22		
Lifting ISO Star		ndard Lifting	
Emergency External I		Emergency Push Button	
Canopy RAL Color	RAL 2000		
Baseframe RAL Col	RAL 9011		
Noise Pressure leve	86.2 dB(A)		

GENSET DIMENSIONS & WEIGHT

Communication

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3505	2005	2310	1060	3500	TBA
CLOSE	5205	1625	2620	1039	4950	TBA

Note that these dimensions are subjected to change as part of continous development process.

USB

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.

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

PRECISION INDUSTRIES

Application

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

