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Rev:1

MODEL	rpm / Hz	VOLTAGE	PRIME <sup>(1)</sup>		STANDBY <sup>(2)</sup>	
PI 630C 1800 / 60		480 / 277	571 kVA / 456.8 kWe		630 kVA / 504 kWe	
ENGINE SPECIFICATIONS			FUEL SYSTEM			
Rated Output (PRP) (1)		507 kW <sub>m</sub>	Fuel Filter: Spin on full flow filter with water sepa		th water separator	
Rated Output (ESP) (2)		563 kW <sub>m</sub>	Recommended Fuel		Class A2 Diesel	
Engine Make & Model		Cummins KTA19-G4	Fuel Consumption St	andby 13	36 L/hr / 35.9 US gal/hr	
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		22 L/hr / 32.3 US gal/hr	
Cycle		4 Strokes	Fuel Consumption 75%	6 PRP 94	4 L/hr / 24.8 US gal/hr	
Aspiration		Turbocharged and Charge ai rcooled	Fuel Consumption 50% PRP		5 L/hr / 17 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		10.13 kPa	
Compression Ra	atio	13.9:1	Exhaust Gas Flow (PR	P/ESP)	104.04 / 111.72 m <sup>3</sup> /mi	
Displacement		18.9 L / 1150 in <sup>3</sup>	Exhaust Gas Temperature		504 °C	
Bore/Stroke (mm / in)		(159/159)/(6.25/6.25)	ALTERNATOR SPECIFICATIONS		NS	
Electrical Starting System		24 VDC, Starter motor	Rated Output (Prime) <sup>(1)</sup>		644 kVA	
AIR SYSTEM			Rated Output (Stand by) (2)		675 kVA	
Air Filter Type		Dry Element	Alternator Make & Model		Stamford HCI544D	
Combustion Air	Flow (PRP)	41.22 m <sup>3</sup> /min	Number of Poles		4	
Combustion Air	Flow (ESP)	42.96 m <sup>3</sup> /min	Number of Winding Leads		12	
Radiator Air Flo	W	TBD	Type of Bearing		Single	
COOLING SYS	TEM		Insulation Class / Temp Rise		H/H	
Total Coolant C	apacity	66 Liter	Efficiency		94.5%	
Water Pump Ty	ре	Centrifugal Eng-Driven	Ingress Protection Rating		IP 23	
Radiator Fan Lo	ad	20 kW	Excitation System		Self Excited	
Heat Radiation to	o Room (PRP)	74 Kw	AVR Model Stamfo		- AS440	
Heat Radiation to Room (ESP)		83 kW	ALTERNATOR OPERATING DAT		ΑΤΑ	
LUBRICATION SYSTEM			Overspeed		2250 r.p.m	
Oil Filter Type Spin		on full flow filter	Voltage Regulation		± 1.0 %	
Total Oil Capacity		50 L / 13.2 US gal.	Wafeform distortion		o load <1.5% near load <5%	
Oil Pan		38 L / 10 US gal.	Radio Interface Standa		EN61000-6-2:2001	
Oil Type	API CH4/	CI4; SAE 15W-40	Cooling Air Flow 1		1.035 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.







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LER SPECIFICATIONS

Controller Make & N	DeepSea 6120			
Operation Mode	MRS / AMF (optional)			
Display Graphic Back		-lit LCD (128x64) pixles		
Ingress Protection F	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			
Commanication	000			

#### **ENCLOSURE SPECIFICATIONS** Acoustic & Weather Proof Enclosure Type Anticorrosive Protection Polyester Powder Coated Galvanized Sheet Ingress Protection Rating IP23 Lifting **ISO Standard Lifting** External Emergency Push Button Emergency Canopy RAL Color **RAL 2000 Baseframe RAL Color** RAL 9011 Noise Pressure level @ 7m 86.2 dB(A)

## GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3618	1500	2143	955	5200	4550
CLOSE	5205	1562	2643	955	6800	6850

## 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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