

PI 900Y

Industrial Generating Set



IODEL rpm / Hz		VOLTAGE	PRIME ⁽¹⁾		STANDBY ⁽²⁾	
PI 900Y 1500 / 50		400 /230 V	813kVA /650.4kWe		888kVA / 710.4kWe	
ull rated power avai eam.	lable upto 100 meter	elevation at ambient of 27degC	, for other temperature and a	ltitude limits p	lease consult application	
NGINE SPEC	IFICATIONS		FUEL SYSTEM			
Rated Output (PRP) ⁽¹⁾		715 kW _m	Fuel Filter:			
Rated Output (ESP) (2)		787 kW _m	Recommended Fuel		Class A2 Diesel	
Engine Make & Model		Yuchai YC6TH1070-D31	Fuel Consumption Standby		195.4 L/hr	
No. of Cylinders		6 Vertical in-line	Fuel Consumption 100% PRP		177.2 L/hr	
Cycle		4 Strokes	Fuel Consumption 75% PRP		139.6 L/hr	
Aspiration		Turbocharged, air-air intercooled	Fuel Consumption 50% PRP		96.1 L/hr	
Cooling Method		Water	EXHAUST SYSTEM			
Governing Type		electronic governor	Muffler Type		Residential	
Governing Class		ISO 8528 G2	Max. Back Pressure		10 kPa	
Compression Ratio		14:01	Exhaust Gas Flow (PRP/ESP)		118.19 / 132.51 m ³ /n	
Displacement		28.14 L	Exhaust Gas Temperature(PRP/ESP)		≤550 [°] C/≤550 [°] C	
BorexStroke (mm)		175×195 mm	ALTERNATOR SPECIFICATIO		IONS	
Battery and Charger Alternator		24V	Rated Output (Prime) (1)		810kVA / 820kVA	
AIR SYSTEM			Rated Output (Standby) (2)		860kVA / 910kVA	
Air Filter Type		Dry-type, filter cartri	Alternator Make & Model		Stamford S6L1D-C41 LeroySomer TAL-A49-	
Combustion Air Flow (PRP)		53 m ³ /min	Number of Poles		4	
Combustion Air Flow (ESP)		57.3 m ³ /min	Number of Winding Leads		12 or 6	
Radiator Air Flow		1700 m³/min	Type of Bearing		Single	
COOLING SYSTEM			Insulation Class / Temp Rise		H/H	
Total Coolant C	Capacity (L)	165 L	Efficiency @ Rated Voltage		95% / 93.9%	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23	
Radiator Fan Load		34 kW	Excitation System		PMG / SHUNT	
Heat Radiation to Room (PRP)		53 kW	AVR Model MX321 /		R150	
Heat Radiation to Room (ESP)		58 kW	ALTERNATOR OPERATING		DATA	
UBRICATION SYSTEM			Overspeed		2250 r.p.m	
Oil Filter		ТВА	Voltage Regulation		± 0.5 % / ± 1 %	
Total Oil Capacity		113 L	Waveform distortion DISTORTI		(< 1.5% / < 0.5%) NON- NG BALANCED LINEAF LOAD < 5.0%	
Oil Pan		73 L	Radio Intertace		00-6-2 & BS EN 61000-6 0875G, VDE 0875N	
Oil Type environmentally		ner; 10W-30 or other suitable diesel engine oils with the t lower than Grade CH-4 as	Cooling Air Flow		1.46 / 1 m³/sec	

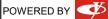
⁽¹⁾ **PRIME POWER RATING (PRP):** PRP is defined as the maximum power which a Generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year. The permissible average power output over 24 hours shall not exceed 70% 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

⁽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.

ISO



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

ENCLOSURE SPECIFICATIONS

Acoustic & Weather Proof Enclosure Type Anticorrosive Protection Polyester Powder Coated Galvanized Sheet Ingress Protection Rating IP22 Lifting ISO Standard Lifting Emergency External Emergency Push Botton Canopy RAL Color RAL 2000 Baseframe RAL Color RAL 9011 Noise Pressure level @ 7m 84 dB(A)

STANDARD ELECTRICAL FEATURES

Battery with charging alternator, cables, and tray.

Fast and accurate protection response.

Generating Set remote start function.

Sealed harness & high resistant electrical connections.

Numeric display with LED. Various languages capable.

الصناعات الوقيقة

PRECISION INDUSTRIES

An advance Control system is designed to provide a

comperhensive protection and to monitor the parameters of

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg) Appx	Wet Weight (kg) Appx
OPEN	4120	2320	2510	1695	6570	6800
CLOSE	6000	2500	2850	1835	9205	9305

Note: The following dimensions are for preliminary guidance. For more detailed and accurate dimensions, please refer to the General Arrangement Drawing (GAD).

generating set.

MCCB power circuit breaker.

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

Pre heating system

Static Battery Charger

Critical grade muffler

Electronic governor

Remote Annunciator

Application

Infrastructure, Industrial , Residential , Telecom, Defense , Mining , Aggriculture

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