

PI 1500Y

Industrial Generating Set



MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI1500Y	1500 / 50	400 /230 V	1375kVA / 1100kWe	1500kVA / 1200kWe

Full rated power available upto 100 meter elevation at ambient of 27degC, for other temperature and altitude limits please consult application team

ENGINE SPECIFIC	ATIONS		
Rated Output (PRP)	(1)	1120 kW _m	
Rated Output (ESP)	1232 kW _m		
Engine Make & Mod	Yuchai YC12VTD1860-D32		
No. of Cylinders	12 V , 90°		
Cycle	4 Strokes		
Aspiration	Turbocharged & intercooled		
Cooling Method		Water	
Governing Type		Electronic control	
Governing Class		G2 - ISO 8528 Part 1	
Compression Ratio	14:1		
Displacement	39.2 L		
BorexStroke (mm)		152 x 180	
Battery and Charger	24 VDC, 55 Amp		
AIR SYSTEM			
Air Filter Type	Dry Element		
Combustion Air Flow	v (PRP)	75.8 m³/min	
Combustion Air Flow	v (ESP)	80.7 m ³ /min	
Radiator Air Flow		2050 m³/min	
COOLING SYSTEM	ı		
Total Coolant Capac	city (L)	419 L (110.7 US g	
Water Pump Type		Centrifugal Eng-Driven	
Radiator Fan Load		58 kW	
Heat Radiation to Roo	65 kW		
Heat Radiation to Roo	105 kW		
LUBRICATION SYS	STEM		
Oil Filter Type	Spin	on full flow filter	
Total Oil Capacity		215 L (56.8 US gal	
Oil Pan	210 L (55.5 US gal		
Oil Type	CI4; SAE 15W-40		

FUEL SYSTEM			
Fuel Filter: Split eleme	r		
Recommended Fuel		Class A2 Diesel	
Fuel Consumption Standby		307.6 L/hr (81.26 US gal	
Fuel Consumption 100% PRP		281.9 L/hr (74.5 US gal/l	
Fuel Consumption 75% PRP		216.3 L/hr (57.14 US gal/	
Fuel Consumption 50	143.1 L/hr (37.8 US gal/		
EXHAUST SYSTEM			
Muffler Type		Residential	
Max. Back Pressure		10 kPa	
Exhaust Gas Flow (PRP/ESP)		178.1 / 195.9 m ³ /m	
Exhaust Gas Temperature(PRP/E	500°C/550°C		
ALTERNATOR SPECIFICATIONS			
Rated Output (Prime) (1)		1400 kVA	
Rated Output (Standby) (2)		1500 kVA	
Alternator Make & Model			
AIGHAU WAKE & W	odel	Stamford S6L1D-H41	
Number of Poles	odel		
		S6L1D-H41	
Number of Poles		S6L1D-H41 4	
Number of Poles Number of Winding I	_eads	S6L1D-H41 4 6	
Number of Poles Number of Winding I Type of Bearing	_eads np Rise	S6L1D-H41 4 6 Single	
Number of Poles Number of Winding I Type of Bearing Insulation Class / Ten	_eads np Rise /oltage	S6L1D-H41 4 6 Single H/H	
Number of Poles Number of Winding I Type of Bearing Insulation Class / Tem Efficiency @ Rated \	_eads np Rise /oltage	S6L1D-H41 4 6 Single H/H 95.00%	
Number of Poles Number of Winding I Type of Bearing Insulation Class / Ten Efficiency @ Rated \ Ingress Protection R	_eads np Rise /oltage	S6L1D-H41 4 6 Single H/H 95.00% IP 23	
Number of Poles Number of Winding I Type of Bearing Insulation Class / Ten Efficiency @ Rated \ Ingress Protection R Excitation System	Leads Inp Rise Voltage ating MX321	S6L1D-H41 4 6 Single H/H 95.00% IP 23 PMG	
Number of Poles Number of Winding I Type of Bearing Insulation Class / Ten Efficiency @ Rated \ Ingress Protection R Excitation System AVR Model	Leads Inp Rise Voltage ating MX321	S6L1D-H41 4 6 Single H/H 95.00% IP 23 PMG	

Voltage Regulation

Waveform distortion

Radio Interface
Cooling Air Flow

⁽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.



± 0.5 %

NON-BS EN 61000-6-2 & BS EN 6100

1.89 m³/sec

NO LOAD < 1.5%

⁽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 & N	DeepSea 6120 MKII			
Operation Mode	MRS / AMF (optional)			
Display	x-lit LCD (128x64) pixles			
Ingress Protection F	IP65			
Binary Inputs/Outpu	8 / 6			
Analog Inputs	4			
Measurement	Vac, A, H	z, kVA, kW, Vdc		
Event Log	Alarms lo	g, Hrs log		
Communication	USB			

ENCLOSURE SPECIFICATIONS			
Enclosure Type Acousti		c & Weather Proof	
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection Rating		IP22	
Lifting	Lifting ISO Star		
Emergency External E		mergency Push Botton	
Container RAL Cold	RAL 9001		
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) Appx	Wet Weight (kg) Appx
OPEN	6219	2005	2751	NA	10777	NA
CLOSE	30 Feet HC Container		NA	13000	13100	

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

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

Pre heating system

Static Battery Charger

Critical grade muffler

Electronic governor

Remote Annunciator

Application

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



