

PI 62Y

Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 62Y	1500 / 50	400 /230 V	56kVA / 44.8kWe	62.5VA / 50kWe

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

NGINE SPECIFIC	ATIONS		
Rated Output (PRP)	55 kW _m		
Rated Output (ESP)	60.5 kW _m		
Engine Make & Mod	Yuchai YC4D80Z-D20		
No. of Cylinders	4 Vertical In-line		
Cycle	4 Strokes		
Aspiration		Turbocharged	
Cooling Method		Water	
Governing Type		electronic governor	
Governing Class		ISO 8528 G2	
Compression Ratio	17.5:1		
Displacement	4.214 L		
BorexStroke (mm)	108×115mm		
Battery and Charger	Alternator	24V	
AIR SYSTEM			
Air Filter Type		Dry Element	
Combustion Air Flov	v (PRP)	3.31 m ³ /min	
Combustion Air Flow	v (ESP)	3.4 m ³ /min	
Radiator Air Flow		79 m³/min	
OOLING SYSTEM	1		
Total Coolant Capac	city (L)	22 L	
Water Pump Type		Centrifugal Eng-Driven	
Radiator Fan Load		2.7 kW	
Heat Radiation to Ro	2.7 kW		
Heat Radiation to Ro	3.3 kW		
UBRICATION SYS	STEM		
OBRIGATION ST	Oil Filter Type Spin		
	Spin	on full flow filter	
	Spin	on full flow filter	
Oil Filter Type			

FUEL SYSTEM			
Fuel Filter: Split element	ent fuel filter		
Recommended Fuel	Class A2 Diesel		
Fuel Consumption S	16.5 L/hr		
Fuel Consumption 10	0% PRP	14.7 L/hr	
Fuel Consumption 75	10.9 L/hr		
Fuel Consumption 50	7.6 L/hr		
EXHAUST SYSTEN	ı		
Muffler Type	Residential		
Max. Back Pressure	10 kPa		
Exhaust Gas Flow (PR	10.5 / 11.2 m ³ /mir		
Exhaust Gas Temperature(PRP/E	550°C/600°C		
ALTERNATOR SPE	CIFICATI	ONS	
Rated Output (Prime	62.5 kVA		
Rated Output (Stand	68.8 kVA		
Alternator Make & M	odel	Stamford S1L2Y1	
Number of Poles		4	
Number of Winding I	Leads	12	
Type of Bearing		Single	
Insulation Class / Ten	np Rise	H/H	
Efficiency @ Rated \	/oltage	89.90%	
Ingress Protection R	ating	IP 23	
Excitation System	Self-Excited		
AVR Model	AS540		
ALTERNATOR OPE	ERATING	DATA	
Overspeed		2250 r.p.m	
Voltage Regulation	± 1.0 %		
voltage i togalation			
Waveform distortion		NO LOAD < 2% NON- DISTORTING BALANCED LINEAR LOAD < 5.0%	

⁽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

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.





0.176 m³/sec



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CONTROLLER SPECIFICATIONS Controller Make & Model DeepSea 4520 MKII Operation Mode Autostart/Manual/AMF Graphic Back-lit LCD Display Ingress Protection Rating **IP65** Binary Inputs/Outputs 4/4 3 **Analog Inputs** Measurement Vac, A, Hz, kVA, kW, Vdc **Event Log** Alarms log, Hrs log Communication USB

ENCLOSURE SPECIFICATIONS				
Enclosure Type	c & Weather Proof			
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection Rating		IP22		
Lifting ISO Star		ndard Lifting		
Emergency External E		mergency Push Botton		
Canopy RAL Color	RAL 2000			
Baseframe RAL Col	RAL 9011			
Noise Pressure level @ 7m		74 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	2000	850	1400	173	1100	1150
CLOSE	3045	1225	1705	245	1650	1690

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





