

PI 33Y

POWERED BY



Industrial Generating Set

/IODEL rpm / H	z VOLTAGE	PRIME ⁽¹⁾		STANDBY ⁽²⁾	
PI33Y 1500 / 5		30kVA / 24kWe		33kVA / 26.4kWe	
ull rated power available upto 100 me am.	er elevation at ambient of 27deg0	C, for other temperature and a	ltitude limits pl	lease consult application	
ENGINE SPECIFICATIONS		FUEL SYSTEM			
Rated Output (PRP) ⁽¹⁾ 30 kW _m		Fuel Filter: Split element fuel filter			
Rated Output (ESP) ⁽²⁾	33 kW _m	Recommended Fuel		Class A2 Diesel	
Engine Make & Model	Yuchai YC4V45Z-D20	Fuel Consumption Standby		9.1 L/hr	
No. of Cylinders	4 Vertical In-line	Fuel Consumption 100% PRP		8.1 L/hr	
Cycle	4 Strokes	Fuel Consumption 75% PRP		6.5 L/hr	
Aspiration	Turbocharged	Fuel Consumption 50% PRP		5.0 L/hr	
Cooling Method	Water	EXHAUST SYSTEM			
Governing Type	mechanical governc	Muffler Type		Residential	
Governing Class	ISO 8528 G3	Max. Back Pressure		10 kPa	
Compression Ratio	17.5:1	Exhaust Gas Flow (PRP/ESP)		4.4 / 4.56 m ³ /min	
Displacement	2.5 L	Exhaust Gas Temperature(PRP/ESP)		550°C/600°C	
BorexStroke (mm)	89×100mm	ALTERNATOR SPECIFICATI		IONS	
Battery and Charger Alternator	12 VDC	Rated Output (Prime) ⁽¹⁾		30 kVA	
IR SYSTEM		Rated Output (Standby) ⁽²⁾		33 kVA	
Air Filter Type	Dry Element	Alternator Make & Model		Stamford S0L2-P1	
Combustion Air Flow (PRP)	N/A	Number of Poles		4	
Combustion Air Flow (ESP)	N/A	Number of Winding Leads		12	
Radiator Air Flow	90 m³/min	Type of Bearing		Single	
OOLING SYSTEM		Insulation Class / Temp Rise		H/H	
Total Coolant Capacity (L)	13.5 L	Efficiency @ Rated Voltage		87.00%	
Water Pump Type	Centrifugal Eng-Driven	Ingress Protection Rating		IP 23	
Radiator Fan Load	1 kW	Excitation System		Self-Excited / Aux	
Heat Radiation to Room (PRP)	1.5 kW	AVR Model AS540			
Heat Radiation to Room (ESP)	3 kW	ALTERNATOR OP	ERATING	DATA	
		Overspeed		2250 r.p.m	
Oil Filter Type Spi	n on full flow filter	Voltage Regulation		± 1.0 %	
Total Oil Capacity	6.5L	Waveform distortion		No load < 2.5%, NON- DISTORTING BALANCED LINEAR LOAD < 5.0%	
Oil Pan	6 L	Radio Interface EN 610		0-6-2 & EN 61000-6-4	

⁽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

15W-40 in summer; 10W-30 or other environmentally suitable diesel engine oils with the quality grade not lower than Grade CH-4 as provided in GB 11122-2006 in winte

(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.

Oil Type

0.105 m³/sec





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CONTROLLER SPECIFICATIONS						
Controller Make & M	DeepSea 4520 MKII					
Operation Mode	Autostart/Manual/AMF					
Display	Graphic Back-lit LCD					
Ingress Protection F	IP65					
Binary Inputs/Outpu	4 / 4					
Analog Inputs	3					
Measurement	Vac, A, Hz, kVA, kW, Vdc					
Event Log Alarms lo		g, 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 72 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	1900	750	1400	173	800	850
CLOSE	2307	1025	1450	183	1000	1050

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.

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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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.



ISO