

PI 1125Y /PI 1250Y

POWERED BY



Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 1125Y /PI 1250Y	1800 / 60	480 /277 V	1125kVA /900kWe	1250kVA / 1000kWe

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

ENGINE SPECIFICA	TIONS
Rated Output (PRP) ⁽) 1000 kW _m
Rated Output (ESP) (2	1100 kW _m
Engine Make & Mode	Yuchai YC12VTD1500-D32
No. of Cylinders	12, V-Type
Cycle	4 Strokes
Aspiration	Turbocharged, water- air intercooled
Cooling Method	Water
Governing Type	Electronic governor
Governing Class	ISO 8528 G2
Compression Ratio	14:01
Displacement	39.2 L
BorexStroke (mm)	152×180mm
Battery and Charger Al	ternator 24 V
AIR SYSTEM	
Air Filter Type	Dry-type, filter cartridge of paper
Combustion Air Flow	(PRP) 88 m³/min
Combustion Air Flow	(ESP) 92 m³/min
Radiator Air Flow	2050 m³/min
COOLING SYSTEM	
Total Coolant Capacit	y (L) 467 L
Water Pump Type	Centrifugal Eng-Driven
Radiator Fan Load	58 kW
Heat Radiation to Roor	n (PRP) 47 kW
Heat Radiation to Roor	n (ESP) 70 kW
LUBRICATION SYST	EM
Oil Filter	
Total Oil Capacity	215 L
Oil Pan	210 L
Oil Type	15W-40 in summer; 10W-30 or other environmentally suitable

FUEL SYSTEM	
Fuel Filter:	
Recommended Fuel	Class A2 Diesel
Fuel Consumption Star	dby 270.7 L/hr
Fuel Consumption 100%	PRP 246.5 L/hr
Fuel Consumption 75%	PRP 189.6 L/hr
Fuel Consumption 50%	PRP 134.2 L/hr
EXHAUST SYSTEM	
Muffler Type	Residential
Max. Back Pressure	10 kPa
Exhaust Gas Flow (PRP	ESP) 228 / 242 m³/min
Exhaust Gas Temperature(PRP/ESF) 550°C/550°C
ALTERNATOR SPECI	FICATIONS
Rated Output (Prime) (1438kVA /1560kVA
Rated Output (Standby	1575kVA /1720kVA
Alternator Make & Mod	Stamford S6L1D-F4 / LeroySomer LSA50.2 M6
Number of Poles	4
Number of Winding Lea	ids 6
Type of Bearing	Single
Insulation Class / Temp	Rise H/H
Efficiency @ Rated Vo	tage 95.6% / 94.9%
Ingress Protection Rati	ng IP 23
Excitation System	PMG / (AREP / PMG
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ALTERNATOR OPERATING DATA

Overspeed

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.



4, VDE 0875G, VDE 0875N

2250 r.p.m

DISTORTING BALANCED LINEAR LOAD (< 5.0% / <3.5%) BS EN 61000-6-2 & BS EN 61000-6-

± 0.5 % / ± 0.25 % NO LOAD (< 1.5% / <3.5) NON-

1.63 / 2.2 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

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

ENCLOSURE SPECIFICATIONS				
Enclosure Type Acousti				
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection Rating				
ISO Stan	dard Lifting			
Emergency External E				
Canopy RAL Color				
Baseframe RAL Color				
Noise Pressure level @ 7m				
	Acousti tion oated Galve Rating ISO Stan External E			

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg) Appx	Wet Weight (kg) Appx
OPEN	5000	2455	2650	NA	10777	10877
CLOSE	20 FEET HC CONTAINER		N/A	13942	14042	

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







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