

الصناعات <mark>المقيقية</mark> PRECISION INDUSTRIES

PI 625Y /PI 687Y

POWERED BY

Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME ⁽¹)	STANDBY ⁽²⁾	
PI 625Y /PI 687Y 1800 / 60		480 /277 V	625kVA /500kWe		687.5kVA / 550kWe	
Full rated power available eam.	e upto 100 meter	elevation at ambient of 27degC,	for other temperature and all	titude limits pl	lease consult application	
ENGINE SPECIFI	CATIONS		FUEL SYSTEM			
Rated Output (PRP) ⁽¹⁾		561 kW _m	Fuel Filter:			
Rated Output (ESP) (2)		616 kW _m	Recommended Fuel		Class A2 Diesel	
Engine Make & Model		Yuchai YC6TD840-D32	Fuel Consumption Standby		158.7 L/hr	
No. of Cylinders		6 Vertical in-line	Fuel Consumption 100% PRP		144.2 L/hr	
Cycle		4 Strokes	Fuel Consumption 7	Fuel Consumption 75% PRP		
Aspiration		Turbocharged, air-air intercooled	Fuel Consumption 50% PRP		78.5 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)		165 / 173 m ³ /min	
Displacement		19.6 L	Exhaust Gas Temperature(PRP/ESP)		550°C/550°C	
BorexStroke (mm)		152×180mm	ALTERNATOR SPECIFICATION		IONS	
Battery and Charge	er Alternator	24 V	Rated Output (Prime) ⁽¹⁾		825kVA / 825kVA	
AIR SYSTEM			Rated Output (Standby) ⁽²⁾		906kVA / 910kVA	
Air Filter Type		Dry-type, filter cartridge of paper	Alternator Make & Model		Stamford HCI544F / LwroySomer TAL-A473-F	
Combustion Air Fl	ow (PRP)	39.6 m ³ /min	Number of Poles		4	
Combustion Air Fl	ow (ESP)	41.4 m ³ /min	Number of Winding Leads		12 / 6	
Radiator Air Flow		1340 m³/min	Type of Bearing		Single	
COOLING SYSTE	М		Insulation Class / Temp Rise		H/H	
Total Coolant Cap	acity (L)	130.5 L	Efficiency @ Rated Voltage		95.10%	
Water Pump Type	•	Centrifugal Eng-Driven	Ingress Protection Rating		IP 23	
Radiator Fan Load	k	23 kW	Excitation System		Self Excited / SHUN	
Heat Radiation to Room (PRP)		76 kW	AVR Model AS440 /		R150	
Heat Radiation to Room (ESP)		99 kW	ALTERNATOR OPERATING		DATA	
LUBRICATION S	YSTEM		Overspeed		2250 r.p.m	
Oil Filter			Voltage Regulation		± 1.0 % / ± 0.8 %	
Total Oil Capacity		55 L	Waveform distortion		NO LOAD (< 1.5% / 3.5%) NON DISTORTING BALANCED LINEAR LOAD < 5.0%	
Oil Pan		53 L	Radio Intertace		000-6-2 & BS EN 61000-6- 75G, VDE 0875N	
		summer; 10W-30 or on	Cooling Air Flow		1.312 / 1.1 m ³ /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.





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CONTROLLER SPECIFICATIONS					
Controller Make & M	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 le		og, Hrs log			
Communication	USB				

ENCLOSURE SPECIFICATIONS					
Enclosure Type Acousti		ic & Weather Proof			
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection F	IP22				
Lifting ISO Star		idard Lifting			
Emergency External E		mergency Push Botton			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	84dB(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	3650	2295	2630	1430	5875	5990
CLOSE	5873	2224	2817	1835	7500	7700

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.



