

PI 687Y

POWERED BY



Industrial Generating Set

		industrial Ge	nerating Set		
				-	
MODEL rpm / Hz		VOLTAGE PRIME)	STANDBY ⁽²⁾
PI 687Y 1500 / 50		400 /230 V	660kVA /528k	-	730kVA / 584kWe
full rated power availa eam.	ble upto 100 meter	elevation at ambient of 27degC	C, for other temperature and a	ltitude limits p	lease consult application
ENGINE SPECI	FICATIONS		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-D31	Fuel Consumption Standby		163.8 L/hr
No. of Cylinders		6 Vertical in-line	Fuel Consumption 100% PRP		143.2 L/hr
Cycle		4 Strokes	Fuel Consumption 75% PRP		103.8 L/hr
Aspiration		Turbocharged, air-air intercooled	Fuel Consumption 50% PRP		71.3 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)		116.2 / 119 m ³ /min
Displacement		19.6 L	Exhaust Gas Temperature(PRP/ESP)		550°C/550°C
BorexStroke (mm)		152×180 mm	ALTERNATOR SP	IONS	
Battery and Charger Alternator		24V	Rated Output (Prime) (1)		670 kVA / 660kVA
AIR SYSTEM			Rated Output (Stand	dby) (2)	738 kVA / 730kVA
Air Filter Type		Dry-type, filter cartri	Alternator Make & Model		Stamford HCI544F / LeroySomer TAL-A473-F
Combustion Air Flow (PRP)		38.1 m ³ /min	Number of Poles		4
Combustion Air Flow (ESP)		40.5 m ³ /min	Number of Winding Leads		12
Radiator Air Flow	N	1160 m³/min	Type of Bearing		Single
COOLING SYST	ГЕМ		Insulation Class / Temp Rise		H/H
Total Coolant Ca	apacity (L)	130.5 L	Efficiency @ Rated Voltage		95% / 95%
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Load		20 kW	Excitation System		Self Excited
Heat Radiation to Room (PRP)		38 kW	AVR Model AS440		/ R150
Heat Radiation to Room (ESP)		52 kW	ALTERNATOR OPERATING DATA		DATA
	SYSTEM		Overspeed		2250 r.p.m
Oil Filter		ТВА	Voltage Regulation		± 1.0 % / ± 0.8
Total Oil Capaci	ty	55 L	Waveform distortion BALANCE		1.5% NON-DISTORTING D LINEAR LOAD < 5.0%
Oil Pan	15/11/10:	52 L	Radio Interface		00-6-2 & BS EN 61000-6- 0875G, VDE 0875N
Oil Type	1500-40 1	n summer; 10W-30 or	Cooling Air Flow		1.035 m ³ /sec / 0.9 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

other environmentally suitable

⁽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	-lit LCD (128x64) pixles						
Ingress Protection F	IP65						
Binary Inputs/Outpu	8 / 6						
Analog Inputs	4						
Measurement	Vac, A, Hz, kVA, kW, Vdc						
Event Log	Alarms log, 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 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	3650	2295	2630	1430	5875	5990
CLOSE	5873	2224	2817.8	1835	8815	9015

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

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.



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ISO