

PI 812Y /PI 900Y

POWERED BY

Industrial Generating Set

MODEL	Rpm /	Hz	VOLTAGE	PRIME (1)	STANDBY ⁽²⁾
PI 812Y /PI 900Y 1800		/ 60 480 /277 V		812kVA /650 kWe		900kVA / 720 kWe
ull rated power available up am.	oto 100 meter e	evation a	it ambient of 27degC, f	or other temperature and a	ltitude limits p	lease consult application
	TIONS			FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾		715 kW _m		Fuel Filter:		
Rated Output (ESP) ⁽²⁾		787 kW _m		Recommended Fuel		Class A2 Diesel
Engine Make & Model		Yuchai YC6TH1070-D33		Fuel Consumption Standby		203.5 L/hr
No. of Cylinders		6, Vertical, in-line		Fuel Consumption 100% PRP		184.1 L/hr
Cycle		4 Strokes		Fuel Consumption 75% PRP		136.3 L/hr
Aspiration		Turbocharged, water-air intercooled		Fuel Consumption 50% PRP		94.7 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)		139.2 / 150.4 m ³ /mir
Displacement		28.14 L		Exhaust Gas Temperature(PRP/ESP)		550°C/550°C
BorexStroke (mm)		175×195mm		ALTERNATOR SPECIFICATIONS		IONS
Battery and Charger Alternator		24 V		Rated Output (Prime) ⁽¹⁾		1025 kVA
				Rated Output (Stan	ndby) ⁽²⁾	1130 kVA
Air Filter Type		Dry-type, filter cartridge of paper		Alternator Make & Model		Leroy Somer TAL-A49-C
Combustion Air Flow	(PRP)	59.4 m ³ /min		Number of Poles		4
Combustion Air Flow	(ESP)	64.3 m ³ /min		Number of Winding Leads		12/6
Radiator Air Flow		1710 m³/min		Type of Bearing		Single
OOLING SYSTEM				Insulation Class / Temp Rise		H/H
Total Coolant Capac	ity (L)	165 L		Efficiency @ Rated Voltage		94.00%
Water Pump Type		Centrifugal Eng-Driven		Ingress Protection Rating		IP 23
Radiator Fan Load		37 kW		Excitation System		SHUNT
Heat Radiation to Room (PRP)		91 kW		AVR Model R150		
Heat Radiation to Roc	om (ESP)	101 kV	N	ALTERNATOR OP	ERATING	DATA
UBRICATION SYS	ТЕМ			Overspeed		2250 r.p.m
Oil Filter				Voltage Regulation		± 1 % NO LOAD < 3.5% NON-
Total Oil Capacity		115 L		Waveform distortion		DISTORTING BALANCED LINEAR LOAD < 5.0%
Oil Pan		105 L		Radio Intertace		000-6-2 & BS EN 61000-6 75G, VDE 0875N
		summer; 10W-30 or ronmentally suitable		Cooling Air Flow		1.2 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	Graphic Back-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 lo	g, 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 Standard Lifting				
Emergency	External E	mergency Push Botton			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	86 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	4810	2620	2125	2125	8600	8900
CLOSE	5900	2500	2850	1835	10900	11000

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