

PI 1250Y

Industrial Generating Set



MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 1250Y	1500 / 50	400 /230 V	1125kVA /900kWe	1230kVA / 1000kWe

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

No. of Cylinders Cycle Aspiration Cooling Method Governing Type Governing Class Compression Ratio Displacement BorexStroke (mm) Battery and Charger Alternator Combustion Air Flow (PRP) Radiator Air Flow COOLING SYSTEM Total Coolant Capacity (L) Water Radiation to Room (PRP) Has transport of the street of the	ENGINE SPECIFICATIONS			
Engine Make & Model No. of Cylinders Cycle Aspiration Cooling Method Governing Type Governing Class Compression Ratio Displacement Battery and Charger Alternator Combustion Air Flow (PRP) Combustion Air Flow (ESP) Total Coolant Capacity (L) Water Pump Type Radiator Fan Load Heat Radiation to Room (PRP) Coll Pan Cycle 4 Strokes Turbocharged, water air intercooled Water La Vater Pump Type Puelectronic governor 152×180 mm 152×180 mm 152×180 mm 24V AIR SYSTEM Dry-type, filter cart 24V AIR SYSTEM Combustion Air Flow (PRP) Total Coolant Capacity (L) Water Pump Type Radiator Fan Load S8 kW Heat Radiation to Room (PRP) Total Cil Type Puelectronic governor 14:01 15W-40 in summer; 10W-30 on Turbocharged, water air intercooled 15W-40 in summer; 10W-30 on	Rated Output (PRP)	1000 kW _m		
No. of Cylinders Cycle Aspiration Cooling Method Governing Type Governing Class Compression Ratio Displacement Battery and Charger Alternator Combustion Air Flow (PRP) Combustion Air Flow (ESP) Total Coolant Capacity (L) Water Radiation to Room (PRP) Heat Radiation to Room (PRP) Coll Pan Oil Type Aspiration Turbocharged, water air intercooled Water Turbocharged, water air intercooled Tarbocharged, water air intercooled Turbocharged, water air intercooled Tarbocharged, water air intercooled Turbocharged, water air intercooled Turbocharged, water air intercooled Turbocharged, water air intercooled Tarbocharged, water air intercooled Turbocharged, water air intercooled Turbocharge	Rated Output (ESP)	1100 kW _m		
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Governing Class Compression Ratio Displacement BorexStroke (mm) Battery and Charger Alternator AIR SYSTEM Air Filter Type Combustion Air Flow (PRP) Combustion Air Flow (ESP) Radiator Air Flow COOLING SYSTEM Total Coolant Capacity (L) Water Pump Type Radiator Fan Load Heat Radiation to Room (PRP) Total Capacity Heat Radiation to Room (ESP) Cultring Total Cil Capacity Coll Pan Coll Type Ison 8528 G3 ISO 8528 G3 14:01 150 150 150 150 150 150 150	Cooling Method			
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Displacement 39.2 L BorexStroke (mm) 152×180 mm Battery and Charger Alternator 24V AIR SYSTEM Air Filter Type Dry-type, filter cart Combustion Air Flow (PRP) 71 m³/min Combustion Air Flow (ESP) 77 m³/min Radiator Air Flow 2050 m³/min COOLING SYSTEM Total Coolant Capacity (L) 485 L Water Pump Type Centrifugal Eng-Driven Radiator Fan Load 58 kW Heat Radiation to Room (PRP) 47 kW Heat Radiation to Room (ESP) 72 kW LUBRICATION SYSTEM Oil Filter TBA Total Oil Capacity 215 L Oil Pan 210 L Oil Type 15W-40 in summer; 10W-30 o	Governing Class		ISO 8528 G3	
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Total Coolant Capacity (L) Water Pump Type Radiator Fan Load Heat Radiation to Room (PRP) Heat Radiation to Room (ESP) Centrifugal Eng-Driven 58 kW Heat Radiation to Room (PRP) Total Capacity Oil Filter TBA Total Oil Capacity 215 L Oil Pan Oil Type Total Type Centrifugal Eng-Driven Total Filter TBA Total Oil Capacity TBA Total Oil Capacity TSW-40 in summer; 10W-30 o	Combustion Air Flow	(ESP)	77 m ³ /min	
Total Coolant Capacity (L) Water Pump Type Radiator Fan Load Heat Radiation to Room (PRP) Heat Radiation to Room (ESP) Centrifugal Eng-Driven 58 kW 47 kW Heat Radiation to Room (ESP) 72 kW LUBRICATION SYSTEM Oil Filter TBA Total Oil Capacity 215 L Oil Pan 210 L Oil Type	Radiator Air Flow		2050 m³/min	
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Heat Radiation to Room (ESP) 72 kW LUBRICATION SYSTEM Oil Filter TBA Total Oil Capacity 215 L Oil Pan 210 L Oil Type 15W-40 in summer; 10W-30 o	Radiator Fan Load		58 kW	
Oil Filter TBA Total Oil Capacity Oil Pan Oil Type 15W-40 in summer; 10W-30 o	Heat Radiation to Room (PRP)		47 kW	
Oil Filter TBA Total Oil Capacity 215 L Oil Pan 210 L Oil Type 15W-40 in summer; 10W-30 o	Heat Radiation to Room (ESP)		72 kW	
Total Oil Capacity 215 L Oil Pan 210 L Oil Type 15W-40 in summer; 10W-30 o	LUBRICATION SYSTEM			
Oil Pan 210 L Oil Type 15W-40 in summer; 10W-30 o	Oil Filter		ТВА	
Oil Type 15W-40 in summer; 10W-30 o	Total Oil Capacity		215 L	
()II I V/DE	•			
	Oil Type			

FUEL SYSTEM			
Fuel Filter:			
Recommended Fue	Class A2 Diesel		
Fuel Consumption S	Standby	263.1 L/hr	
Fuel Consumption 10	00% PRP	237.0 L/hr	
Fuel Consumption 75	5% PRP	178.8 L/hr	
Fuel Consumption 50)% PRP	124.1 L/hr	
EXHAUST SYSTE	VI		
Muffler Type		Residential	
Max. Back Pressure)	10 kPa	
Exhaust Gas Flow (P	RP/ESP)	190 / 212 m ³ /min	
Exhaust Gas Temperature(PRP/ESP)		≤550°C/≤550°C	
ALTERNATOR SPI	IONS		
Rated Output (Prime	1150kVA / 1250kVA		
Rated Output (Stand	dby) (2)	1230kVA / 1375kVA	
Alternator Make & M	/lodel	Stamford S6L1D-F41 / LeroySomer LSA50.2 M6	
Number of Poles		4	
Number of Winding	Leads	(12/6) / 6	
Type of Bearing		Single	
Insulation Class / Ter	mp Rise	H/H	
Efficiency @ Rated	Voltage	95.6% /95.2%	
Ingress Protection F	Rating	IP 23	
Excitation System		PMG / (AREP / PMG	
AVR Model	MX321	/ D350	
ALTERNATOR OP	ERATING	DATA	
Overspeed		2250 r.p.m	
Voltage Regulation		± 0.5 % / ± 0.25 %	
		I.5% / 3.5%) NON-DISTORTING LINEAR LOAD (< 5.0% / 3.5%)	
Radio Intertace		00-6-2 & BS EN 61000-6- 0875G, VDE 0875N	
Cooling Air Flow		1.36 / 1.8 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

⁽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.







PI 1250Y

Industrial Generating Set



CONTROLLER SPECIFICATIONS			
Controller Make & N	DeepSea 6120 MKII		
Operation Mode	MRS / AMF (optional)		
Display Graphic B		x-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			
Enclosure Type	c & Weather Proof		
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection F	IP22		
Lifting	Lifting ISO Star		
Emergency External E		mergency Push Botton	
Container RAL Color		RAL 9001	
Baseframe RAL Color		RAL 9011	
Noise Pressure level @ 7m		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	2200	2600	NA	9100	9350
CLOSE	20 FEET	LHC CON.	TAINER	N/A	11642	11740

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



