

PI 1250P

Industrial Generating Set



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

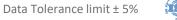
Full rated power available upto 100 meter elevation at ambient of 27degC, for other temperature and altitude limits please consult application team.

team. ENGINE SPECIFIC	ATIONS			FUEL SYSTEM		
		947 kW _m		Fuel Filter: Full-flow	oil filters	
Rated Output (ESP) (2)		1055 kW _m		Recommended Fuel		Class A2 Diesel
Engine Make & Model		Perkins 4008-30TAG3	=	Fuel Consumption Standby		269 L/hr (71 US gal/hr)
No. of Cylinders		8 Vertical In-line	_	Fuel Consumption 100% PRP		244 L/hr (64.5 US gal/hr)
Cycle		4 Strokes		Fuel Consumption 75% PRP		188 L/hr (49.6 US gal/hr)
Aspiration	-			Fuel Consumption 50% PRP		120 L/hr (31.7 US gal/hr)
Cooling Method		Water		EXHAUST SYSTEM		
Governing Type		Electronic		Muffler Type		Residential Grade
Governing Class		G2 - ISO 8528 Part 1	_	Max. Back Pressure		3 kPa
Compression Ratio		13.6:1	_	Exhaust Gas Flow(PRP/ESP)		203/240 m ³ /min
Displacement	Displacement			Exhaust Gas Temperature (PRP/ESP)		473°C/482°C
BorexStroke (mm / i	BorexStroke (mm / in)			ALTERNATOR SPECIFICAT		IONS
Battery and Charger	Battery and Charger Alternator		_	Rated Output (Prime) ⁽¹⁾		1250 kVA
AIR SYSTEM	AIR SYSTEM		_	Rated Output (Standby) (2)		1375 kVA
Air Filter Type	Air Filter Type		_	Alternator Make & Model		Leroy somer LSA 50.2 M6
Combustion Air Flow	Combustion Air Flow (PRP)			Number of Poles		4
Combustion Air Flow	Combustion Air Flow (ESP)			Number of Winding Leads		6 /12
Radiator Air Flow	Radiator Air Flow			Type of Bearing		Single
COOLING SYSTEM	Л		_	Insulation Class / Temp Rise		H/H
Total Coolant Capac	city (L)	48 L (12.7 US gal)	_	Efficiency @ Rated Voltage		95.0%
Water Pump Type	Water Pump Type			Ingress Protection Rating		IP 23
Radiator Fan Load	Radiator Fan Load			Excitation System		AREP / PMG
Heat Radiation to Roo	Heat Radiation to Room (PRP)			AVR Model	D350	
Heat Radiation to Roo	Heat Radiation to Room (ESP)			ALTERNATOR OPERATING		DATA
LUBRICATION SYSTEM				Overspeed		2250 r.p.m
Oil Filter Type	Oil Filter Type Full-flow			Voltage Regulation		± 0.25 %
Total Oil Capacity		153 L (40.4US gal)	_	Waveform distortion		No-load < 3.5 %, linear load < 3.5 %
Oil Pan		153 L (40.4US gal)	_	Radio Interface EN 6100		0-6-2 & EN 61000-6-4
Oil Type	API CH4/	CI4; SAE 15W-40	_	Cooling Air Flow		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.







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CONTROLLER SPECIFICATIONS				
Controller Make & N	DeepSea 6120			
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, H	z, kVA, kW, Vdc		
Event Log	Alarms lo	g, Hrs log		
Communication	USB			

ENCLOSURE SPECIFICATIONS					
Enclosure Type	Enclosure Type Acousti				
Anticorrosive Protect	ction				
Polyurethane paint	Polyurethane paint with anti corrosive base coat.				
Ingress Protection F	Ingress Protection Rating				
Lifting	Lifting ISO Star				
Emergency	Emergency External E				
Canopy RAL Color		RAL 2000			
Baseframe RAL Color		RAL 9011			
Noise Pressure level @ 7m		82 dB(A)			

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	4700	2610	2475	2152	9100	9350
CLOSE	20 Feet ISO HQ container		NA	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 $^{\circ}$ 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

Jacket water pre-heater

Static Battery Charger

Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator

Application

Infrastructure, Industrial , Residential , Telecom, Defense , Mining , Aggriculture



