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PR	RECI	ISION	IND	UST	TR.	IES	

PI 1500M



Industrial Generating Set

VOLTAGE

PRIME ⁽¹⁾

Rev-00

MODEL PI 1500M

NA.

rpm / Hz 1500 / 50

400 / 230

1380kVA /1104kWe

1500kVA / 1200kWe

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

			FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾	1085 kW _m	Fuel Filter: TBA**		
Rated Output (ESP) ⁽²⁾	1280 kW _m	Recommended Fue	el	Class A2 Dies
Engine Make & Model		Mitsubishi S12R- PTAR1	Fuel Consumption	Fuel Consumption Standby	
No. of Cylinders		12 V	Fuel Consumption 1	Fuel Consumption 100% PRP	
Cycle		4 Strokes	Fuel Consumption 7	Fuel Consumption 75% PRP	
Aspiration		Turbocharged	Fuel Consumption 5	Fuel Consumption 50% PRP	
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Electrical	Muffler Type	Muffler Type	
Governing Class		ISO 8528-5	Max. Back Pressure	е	5.88 kPa
Compression Ratio		14.0:1	Exhaust Gas Flow (F	PRP/ESP)	293/265 m ³ /m
Displacement		49.0 L (2990 in ³)	Exhaust Gas Temp (PRP/ESP)	Exhaust Gas Temperature (PRP/ESP)	
BorexStroke		170x180 mm	ALTERNATOR SP	ALTERNATOR SPECIFICATIONS	
Battery and Charger	Alternator	24 VDC ,30 Amp	Rated Output (Prim	Rated Output (Prime) ⁽¹⁾	
			Rated Output (Stan	Rated Output (Standby) ⁽²⁾	
Air Filter Type		Turbo Filter	Alternator Make & I	Alternator Make & Model	
Combustion Air Flo	w (PRP)	100 m3/min	Number of Poles	Number of Poles	
Combustion Air Flo	w (ESP)	111 m ³ /min	Number of Winding	Number of Winding Leads	
Radiator Air Flow		1260 m³/min	Type of Bearing	Type of Bearing	
OOLING SYSTE	N		Insulation Class / Te	Insulation Class / Temp Rise	
Total Coolant Capa	city (L)	250 litres	Efficiency @ Rated	Efficiency @ Rated Voltage	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection I	Ingress Protection Rating	
Radiator Fan Load		23 kW	Excitation System	Excitation System	
Heat Radiation to Ro	oom (PRP)	77.89 kW	AVR Model	AVR Model Stamford -	
Heat Radiation to Ro	oom (ESP)	87.6 kW	ALTERNATOR OP	ALTERNATOR OPERATING D	
UBRICATION SY	STEM		Overspeed	Overspeed	
Oil Filter Type	P	aper element	Voltage Regulation	Voltage Regulation	
Total Oil Capacity		180 litres	Waveform distortion	Waveform distortion	
Oil Pan		150 L (39.6 US gal)	Radio Interface	EN 61000-6	Linear load < 6-2 &EN 61000-6
Oil Type	SAE 10W/S	AE 30W/SAE15W-40	Cooling Air Flow	1	2.63 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.





PI 1500M

Industrial Generating Set

POWERED BY



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

ENCLOSURE SPECIFICATIONS

Enclosure Type Acous		tic & Weather Proof		
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection R	IP22			
Lifting	idard Lifting			
Emergency	mergency Push Button			
Canopy RAL Color	RAL 9001			
Baseframe RAL Col	RAL 9011			
Noise Pressure leve	88 dB(A)			

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	5988	2000	2500	NA	8616	8896
CLOSE	9000	2350	3850	NA	14000	15000

Note: These dimensions are for preliminary guidance. Please refer to GA drawing.

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.

Industrial Grade Muffler with rain cap.

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

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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