rpm / Hz

MODEL

PI 2100M

POWERED BY

PRIME (1)



STANDBY (2)

Rev-00

Industrial Generating Set

PI 2100M 1500 / 50 400 / 230 1900kVA /1520kWe 2100kVA / 1680kWe

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

VOLTAGE

ENGINE SPECIFIC	ATIONS		
Rated Output (PRP	1600 kW _m		
Rated Output (ESP)	1760 kW _m		
Engine Make & Mod	Mitsubishi S16R- PTAH		
No. of Cylinders		16 V	
Cycle		4 Strokes	
Aspiration		Turbocharged	
Cooling Method		Water	
Governing Type	Electrical		
Governing Class	ISO 8528-5		
Compression Ratio	14.0:1		
Displacement	65.37 L (3989 in ³)		
Bore x Stroke	Bore x Stroke		
Battery and Charger Alternator		24 VDC ,30 Amp	
AIR SYSTEM			
Air Filter Type	Air Filter Type		
Combustion Air Flor	Combustion Air Flow (PRP)		
Combustion Air Flow (ESP)		154 m³/min	
Radiator Air Flow		2040 m³/min	
COOLING SYSTEM			
Total Coolant Capacity (L)		350 litres	
Water Pump Type		Centrifugal Eng-Driven	
Radiator Fan Load		30 kW	
Heat Radiation to Room (PRP)		122.8 kW	
Heat Radiation to Room (ESP)		134.88 kW	
LUBRICATION SYS	STEM		
		TBA	
Oil Filter Type			
Oil Filter Type Total Oil Capacity		230 litres	
		230 litres 200 L(52.8 US gal)	

FUEL SYSTEM			
Fuel Filter: TBA**			
Recommended Fuel		Class A2 Diesel	
Fuel Consumption	Standby	475 L/hr	
Fuel Consumption 1	00% PRP	436 L/hr	
Fuel Consumption 75% PRP		338 L/hr	
Fuel Consumption 5	240 L/hr		
XHAUST SYSTE	М		
Muffler Type		Residential Grade	
Max. Back Pressure		5.88 kPa	
Exhaust Gas Flow (PRP/ESP)		407/371 m ³ /min	
Exhaust Gas Temperature (PRP/ESP)		550°C/550°C	
LTERNATOR SP	ECIFICATIO	NS	
Rated Output (Prime) (1)		2080 kVA	
Rated Output (Standby) (2)		2250 kVA	
Alternator Make & Model		S7L1D-G41	
Number of Poles		4	
Number of Winding Leads		6	
Type of Bearing		Single	
Insulation Class / Temp Rise		H/H	
Efficiency @ Rated Voltage		96.1%/95.8%	
Ingress Protection Rating		IP 23	
Excitation System		PMG	
AVR Model	Stamford - N	MX341	
ALTERNATOR OP	ERATING D	ATA	
Overspeed		2250 r.p.m	
Voltage Regulation		± 1 %	
Waveform distortion		No load < 1.5%, Linear load < 5%	
Radio Interface	EN 61000-6	6-2 &EN 61000-6-4	
Cooling Air Flow		2.39 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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PI 2100M

Industrial Generating Set

POWERED BY



Rev-00

CONTROLLER SPECIFICATIONS				
Controller Make & Model		DeepSea 6120MKIII		
Operation Mode		MRS / AMF (optional)		
Display	Graphic Back	-lit LCD (128x64) pixles		
Ingress Protection Rating		IP65		
Binary Inputs/Outputs		8/6		
Analog Inputs		4		
Measurement	Vac, A, H	z, kVA, kW, Vdc		
Event Log	Alarms log, Hrs log			
Communication	USB			

ENCLOSURE SPECIFICATIONS			
Enclosure Type	Acoustic & Weather Proof		
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection Rating		IP22	
Lifting	Lifting ISO Star		
Emergency External E		mergency Push Button	
Canopy RAL Color		RAL 9001	
Baseframe RAL Color		RAL 9011	
Noise Pressure level @ 7m		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	7000	2500	2500	NA	10687	10964
CLOSE	12000	3200	3350	NA	16000	17000

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.

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







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