PI	الصناعات <mark>المقيقية</mark> PRECISION INDUSTRIES

PI 760M

POWERED BY

MITSUBISHI

MODEL

PI 760M

VOLTAGE rpm / Hz 1500 / 50

Industrial Generating Set

PRIME (1) 670kVA /536 kWe STANDBY⁽²⁾ 760 kVA / 608kWe

Rev-00

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

400 / 230

ENGINE SPECIFICATIONS			FUEL SYSTEM			
Rated Output (PRP) ⁽¹⁾	575 kW _m		Fuel Filter: TBA**		
Rated Output (ESP) (2)		635 kW _m		Recommended Fuel		Class A2 Diesel
Engine Make & Model		Mitsubishi S6R2- PTA		Fuel Consumption Standby		166 L/hr
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		00% PRP	149 L/hr
Cycle		4 Strokes		Fuel Consumption 75% PRP		113 L/hr
Aspiration		Turbocharged		Fuel Consumption 50% PRP		79 L/hr
Cooling Method		Water		EXHAUST SYSTEM		
Governing Type		Electrical	-	Muffler Type		Residential Grade
Governing Class		ISO 8528-5		Max. Back Pressure	е	5.88 kPa
Compression Ratio		14.0:1		Exhaust Gas Flow (F	PRP/ESP)	125 /137 m ³ /min
Displacement		29.96 L (1828 in ³)		Exhaust Gas Temp (PRP/ESP)	erature	550°C/550°C
BorexStroke		170x220 mm		ALTERNATOR SPECIFICATIO		NS
Battery and Charger Alternator		24 VDC , 30 Amp		Rated Output (Prime) ⁽¹⁾		670 kVA
AIR SYSTEM			-	Rated Output (Standby) ⁽²⁾		738 kVA
Air Filter Type		ТВА		Alternator Make & Model		HCI544F/S5L1D- F41
Combustion Air Flo	w (PRP)	47 m ³ /min		Number of Poles		4
Combustion Air Flo	w (ESP)	52 m ³ /min		Number of Winding Leads		12
Radiator Air Flow		720 m³/min		Type of Bearing		Single
OOLING SYSTEI	N		_	Insulation Class / Temp Rise		H/H
Total Coolant Capa	city (L)	120 litres		Efficiency @ Rated Voltage		94.8%/94.6%
Water Pump Type		Centrifugal Eng-Driven		Ingress Protection Rating		IP 23
Radiator Fan Load		20 kW		Excitation System	~	
Heat Radiation to Room (PRP)		41.4 kW		AVR Model Stamford -,		S440
Heat Radiation to Room (ESP)		45.3 kW		ALTERNATOR OPERATING D		ΑΤΑ
UBRICATION SY	STEM			Overspeed		2250 r.p.m
Oil Filter Type	Pa	aper element	-	Voltage Regulation		±1%
Total Oil Capacity		100 litres		Waveform distortion		No load < 1.5%, Linear load < 5%
Oil Pan		80 L (21.1 US gal)	_	Radio Interface EN 61000-		-2 &EN 61000-6-4
Oil Type	SAE 10W/S	AE 30W/SAE15W-40		Cooling Air Flow		1.12 m ³ /sec
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(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 6120MKIII		
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 log	g, Hrs log	
Communication	USB		

ENCLOSURE SPECIFICATIONS

Enclosure Type	Acoustic & Weather Proof			
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection R	IP22			
Lifting	ISO Standard Lifting			
Emergency	External E	mergency Push Button		
Canopy RAL Color	RAL 2000			
Baseframe RAL Col	RAL 9011			
Noise Pressure leve	85 dB(A)			

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	4585	2100	2350	1450	5005	5145
CLOSE	5700	2250	2800	1450	7000	8000

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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