

PI 660M

POWERED BY



Rev-00

Industrial Generating Set

MODEL rpm / Hz VOLTAGE PRIME (1) STANDBY (2)
PI 660M 1500 / 50 400 / 230 600kVA /480 kWe 660 kVA / 528kWe

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

ENGINE SPECIFIC	ENGINE SPECIFICATIONS				
Rated Output (PRP)	500 kW _m				
Rated Output (ESP)	555 kW _m				
Engine Make & Mod	Mitsubishi S6R- PTA				
No. of Cylinders	6 Vertical In-line				
Cycle	4 Strokes				
Aspiration	Turbocharged				
Cooling Method		Water			
Governing Type	Electrical				
Governing Class	Governing Class				
Compression Ratio	14.0:1				
Displacement	24.51 L (1496 in ³)				
BorexStroke	170x180 mm				
Battery and Charger	Battery and Charger Alternator				
AIR SYSTEM					
Air Filter Type	Air Filter Type				
Combustion Air Flow (PRP)		42 m ³ /min			
Combustion Air Flow (ESP)		47 m³/min			
Radiator Air Flow		582 m³/min			
		582 m³/min			
COOLING SYSTEM	1	582 m³/min			
COOLING SYSTEM Total Coolant Capac		582 m³/min 110 litres			
Total Coolant Capac		110 litres			
Total Coolant Capac	city (L)	110 litres Centrifugal Eng-Driven			
Total Coolant Capac Water Pump Type Radiator Fan Load	om (PRP)	110 litres Centrifugal Eng-Driven 15 kW			
Total Coolant Capac Water Pump Type Radiator Fan Load Heat Radiation to Ro	om (PRP)	110 litres Centrifugal Eng-Driven 15 kW 36.82 kW			
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Recommended Fuel				
Fuel Consumption Standby				
Fuel Consumption 100% PRP				
Fuel Consumption 75% PRP				
Fuel Consumption 50% PRP				
EXHAUST SYSTEM				
Muffler Type				
Max. Back Pressure				
Exhaust Gas Flow (PRP/ESP)				
Exhaust Gas Temperature (PRP/ESP)				
ALTERNATOR SPECIFICATIONS				
e) ⁽¹⁾	610 kVA			
Rated Output (Standby) (2)				
Alternator Make & Model				
	4			
Leads	12			
Type of Bearing				
mp Rise	H/H			
Efficiency @ Rated Voltage				
Ingress Protection Rating				
Excitation System				
Stamford - A	\S440			
ERATING D	ATA			
	2250 r.p.m			
Voltage Regulation				
Waveform distortion				
EN 61000-6	-2 &EN 61000-6-4			
	Standby 00% PRP 5% PRP 0% PRP W EPRP/ESP) erature ECIFICATIO e) (1) dby) (2) Model Leads mp Rise Voltage Rating Stamford - A ERATING D			

⁽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

Cooling Air Flow

⁽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.



1.12 m³/sec

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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	ISO Standard Lifting		
Emergency	External Emergency Push Button		
Canopy RAL Color		RAL 2000	
Baseframe RAL Color		RAL 9011	
Noise Pressure level @ 7m		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	4405	2100	2350	1300	4763	4993
CLOSE	5500	2250	2800	1350	6500	7500

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





