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# PI 2650M

POWERED BY

Industrial Generating Set

BY MITSUBISHI

		Industrial Gene	rating Set	Rev-00
MODEL	rpm / Hz	VOLTAGE	PRIME <sup>(1)</sup>	STANDBY <sup>(2)</sup>
PI 2650M	1500 / 50	400 / 230	2400kVA /1920kWe	2650kVA / 2120kWe

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

NGINE SPECIFIC	ATIONS			FUEL SYSTEM			
Rated Output (PRP)	(1)	1998 kW <sub>m</sub>	-	Fuel Filter: TBA**			
Rated Output (ESP)	(2)	2205 kW <sub>m</sub>	-	Recommended Fuel		Class A2 Diesel	
Engine Make & Model		Mitsubishi S16R2- PTAW-E	-	Fuel Consumption Standby		535 L/hr	
No. of Cylinders		16 V	-	Fuel Consumption 100% PRP		481 L/hr	
/cle		4 Strokes	_	Fuel Consumption 7	75% PRP	365 L/hr	
spiration		Turbocharged	-	Fuel Consumption 5	0% PRP	240.5 L/hr	
ooling Method		Water	_	EXHAUST SYSTE	М		
overning Type		Electrical	_	Muffler Type		Residential Grade	
Governing Class		ISO 8528-5	-	Max. Back Pressur	e	5.88 kPa	
Compression Ratio		14.0:1	_	Exhaust Gas Flow (	PRP/ESP)	479/536 m <sup>3</sup> /min	
Displacement		65.4 L (3991 in <sup>3</sup> )	_	Exhaust Gas Temperature (PRP/ESP)		550°C/550°C	
BorexStroke		170x220 mm	-	ALTERNATOR SPECIFICATIO		NS	
Battery and Charger Alternator		24 VDC ,35 Amp	-	Rated Output (Prime) <sup>(1)</sup>		2500 kVA	
AIR SYSTEM				Rated Output (Standby) <sup>(2)</sup>		2750 kVA	
Air Filter Type		Turbo Filter	-	Alternator Make & Model		S7L1D-J41	
mbustion Air Flow	v (PRP)	181 m3/min	_	Number of Poles		4	
ombustion Air Flow	v (ESP)	202 m <sup>3</sup> /min	_	Number of Winding Leads		6	
Radiator Air Flow		TBA **m³/min	-	Type of Bearing		Single	
OOLING SYSTEM	Л			Insulation Class / Te	emp Rise	H/H	
Fotal Coolant Capac	city (L)	350 litres	-	Efficiency @ Rated	Voltage	96.3%/96.1%	
Vater Pump Type		Centrifugal Eng-Driven	-	Ingress Protection	Rating	IP 23	
Radiator Fan Load		70 kW	_	Excitation System		PMG	
leat Radiation to Ro	om (PRP)	159.52 kW	-	AVR Model Stamford -		MX322	
leat Radiation to Ro	om (ESP)	178.35 kW	-	ALTERNATOR OF	PERATING D	ΑΤΑ	
UBRICATION SYS	STEM		ĺ.	Overspeed		2250 r.p.m	
Dil Filter Type	Full Flo	ow Paper Element	-	Voltage Regulation		± 0.5%	
Fotal Oil Capacity	ı 	290 litres	_	Waveform distortion		No load < 1.5%, Linear load < 5%	
Oil Pan		260 L(68.7 US gal)	_	Radio Interface	EN 61000-6	-2 &EN 61000-6-4	
Dil Type	SAE 10W/S	AE 30W/SAE15W-40		Cooling Air Flow		3.1 m <sup>3</sup> /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

<sup>(2)</sup> **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 2650M

**Industrial Generating Set** 

POWERED BY



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

ENCLOSURE SPECIFICATIONS					
Enclosure Type	ic & Weather Proof				
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection F	IP22				
Lifting	fting ISO Star				
Emergency External E		mergency Push Button			
Canopy RAL Color		RAL 9001			
Baseframe RAL Co	RAL 9011				
Noise Pressure leve	88 dB(A)				
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GENSET DIMENSIONS & WEIGHT						
GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	7300	2500	2800	NA	12465	12915
CLOSE	12000	3200	3350	NA	20000	21000

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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