

Model:MT825D5

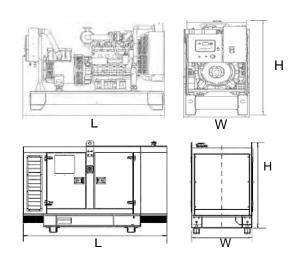
Powered by Mitsubishi

Output Ratin	g			
MODEL		Powe	r rating	Voltage available
		PRIME(1)	STANDBY(2)	
MT825D5	400V/50HZ	600KW	640KW	380/220V 400/230V 415/240V
	PF:0.8	750KVA	800KVA	

General Information				
Model		MT825D5		
Engine		S6R2-PTAA		
Speed	l control type	Electronic		
	Phase	3		
Control System		Digital		
System voltage		12V/24V		
Fr	equency	50HZ		
Engine	Speed(RPM)	1500		
Fuel	Standby power(2)	152		
Consumption L/hr	Prime Power(1)	136		
	75% prime power	104		
	50% prime power	76		



Dimension and Weight					
Dimensio	on	Open	Silent		
Length	(L)	5030mm	12192mm		
Width	(W)	2438mm	2438mm		
Height	(H)	2600mm	2896mm		
Net Weig	ht	10000KG	20320KG		



AGG POWER gensets are compliant with EC mark which include the following directives:

- * 2006/42/EC Machinery safety.
- * 2006/95/EC Low voltage
- * EN 60204-1: 2006+A1:2009, EN ISO 12100:2010, EN ISO 13849-1: 2008, EN 12601: 2010

(1)Prime Power(PRP):

According to ISO 8528-1:2005, Prime power is 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 under the agreed operation conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24h of operation shall not exceed 70% of the PRP.

(2) Standby Power (ESP):

According to ISO 8528-1:2005, standby power is the maximum power available during a variable electrical power sequence, under the stated operation conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200h of operation per year with the maintenance intervals and procedures being caried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP.





■Engine Specification S6R2-PTAA

GENERAL ENGINE DATA		
Type4-Cyc	le, Water Cooled	l
Aspiration ———————Turbo	-Charged, Air to	Air Cooler
Cylinder Arragemen	Inline	
No.of Cylinders	6	
Bore mm(in.)	170	(6.69)
Stroke mm(in.)		(8.66)
Displacement liter(ir ³)	29.96	(1828)
Compression Ratio	14.0:1	
Dry Weight - Engine only - kg(lb)		(5226)
- Radiator & Piping - kg(Ib)	471	(1039)
Wet Weight - Engine only - kg(lb)		(5546)
- Radiator & Piping - kg(Ib)	5 57	(1228)
PERFORMANCE DATA		
Steady State Speed Stability Band at any Constant Load		
Hydraulic (std.) or Electric Governor - %	±0.25 o	r better
Maximum Overspeed Capacity - rpm		
Moment of inertia of Rotating Components - kg·m²(lbf·ft²)	41.74	(991)
(Includes Std.Flywheel)		,
Cyclic Speed Variation with Flywheel \$500rpm	1/97	
1200rpm	1/60	
1000rpm	1/43	
ENGINE MOUNTING		
Maximum Bending Moment at Rear Face of Flywheel Housing - kg m(lbf ft)	200	(1447)
AIR INLET SYSTEM		,
Maximum Intake Air Restriction (Includes piping		
With Clean Filter Element - mm F ₂ O (in.H ₂ O)	400	(15.7)
With Dirty Filter Element - mm F ₂ O (in.H ₂ O)		(25.0)
EXHAUST SYSTEM		,
Maximum Allowable Back Pressure - mm F ₂ O (in.H ₂ O)	600	(23.6)
LUBRICATION SYSTEM		, ,
Oil Pressure at ldle - kgf/cm²(psi)	2 ~ 3	$(29 \sim 43)$
at Rate Speed - kgf/cm ² (psi)	5 ~ 6.5	$(71 \sim 93)$
Maximum Oil Temperature - °C(°F)		(230)
Oil Capacity of Standard Pan High - liter (U.S.gal)		(21.1)
Low - liter (U.S.gal)	50	(13.2)
Total System Capacity (Includes Oil Filter) - liter (U.S.gal	100	(26.4)
Maximum Angle of Installation (Std. Pan) Front Down		,
(Engine Only) Front Up	10°	
Side to Side	22.5°	
COOLING SYSTEM		
Coolant Capactiy - Engine only - liter (U.S.gal	55	(14.5)
- Radiator & Piping - liter (U.S.gal)	86	(22.7)
Maximum External Friction Head at Engine Outlet - kgf/cn²(psi)	0.35	(5.0)
Maximum Static Head of Coolant above Crankshaft Center - m(ft		(32.8)
Maximum Outlet Pressure of Engine Water Pump - kgf/cn²(psi)		(28.6)
Standard Thermostat (modulating)Range - °C(°F)		, ,
Maximum Coolant Temperature at Engine Outlet - °C(°F)	98	(208)
Minimum Coolant Expansion Space - % of System Capacity		• /
Maximum Cooling Air Temperature at Air to Air Cooler Inlet, TAA type ^o C(°F)		(104)
Maximum Air Restriction on Discharge Side of Radiator and Fan-mm I ₂ O(in.H ₂ C		(0.4)
2	*	• /







Alternator

Alternator		
Poles	Num	4
Winding Connections (standard)		Star-serie
Insulation	Class	H class
Enclosure (according IEC-34-5)		IP23
Exciter System		Brushless
Voltage Regulator		A.V.R. (Electronic)
Bearing		Single bearing
Coupling		Flexible disc
Coating type		Standard (Vacuum impregnation)

Options

Engine	Alternator	Generator Sets	Fuel System	Canopy
Water Jacket Preheater Oil Preheater	Winding Temperature measuring Instrument Alternator Preheater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater	●Tools with the machine	Low fuel level alarm Automatic fuel feeding system Fuel T-valves	●Rental Type Canopy ●Trailer
Lubricating System	Exhaust System	Cooling System	Control Panel	Voltages
Oil with the machine	●Protection board from hotness	Front heat protectionCoolant (-30°C)	Remote control panel ATS Remote controller Synchronizing controller	• 415/240V • 380/220V • 220/127V • 220/127V • 200-115V







Control Panel



Product description

- Single gen-set controller for Stand-by and Primepower applications
- Direct communication with EFI engines
- · Total remote monitoring and control

Key features

- Easy to install, configure and use
- Wide range of communication capabilities including:
 - connection via RS232, RS485, CAN and on board USB
 - internet access using Ethernet or GPRS
 - support for Modbus and SNMP protocols
- Cloud-based monitoring and control
- Active SMS and emails in different languages
- 2x 5 A binary outputs for cranking and fuel solenoid
- Option for up to 16 additional binary inputs/outputs
- Flexible event based history with up to 350 events
- · Load shedding, dummy load capability
- · Automatic temperature based cooling/heating
- · Comprehensive gen-set protections
- Multipurpose flexible timers
- · True RMS measurement

Available extension modules

Product	Description	Order code
CM-Ethernet	Ethernet interface	CM2ETHERXBX
CM-GPRS	GSM modem / wireless internet	CM2GPRSXXBX
CM-RS232-485	Dual port interface	CM223248XBX
EM-BIO8-EFCP	8 additional binary inputs/outputs	EM2BIO8EXBX

Functions and protections

Description	ANSI code	Descritption	ANSI code
Over voltage	59	Load shedding	32P
Under voltage	27	Overload	32
Voltage asymmetry and Phase rotation**	47	Power factor	55
Over frequency	81H	Temperature	49T
Under frequency	81L	Gas (fuel) level	71
Over current*	50 + 51	Earth fault current	50N + 64
Current unbalance	46		

^{*} Short current only





^{**} Fixed setting