

Your Professional Power Assistant

Model:MT1100D5

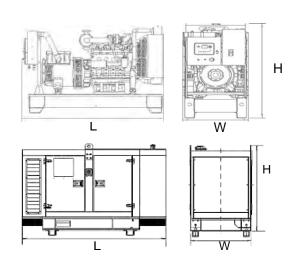
Powered by Mitsubishi

Output Rating	9			
MODEL		Powe	r rating	Voltage available
		PRIME(1)	STANDBY(2)	
MT1100D5	400V/50HZ	800KW	880KW	380/220V 400/230V 415/240V
	PF:0.8	1000KVA	1100KVA	

General Information			
Model		MT1100D5	
	Engine	S12H-PTA	
Speed	I control type	Electronic	
	Phase	3	
Control System		Digital	
System voltage		12V/24V	
Fr	equency	50HZ	
Engine	Speed(RPM)	1500	
Fuel	Standby power(2)	237	
Consumption L/hr	Prime Power(1)	217	
	75% prime power	167	
	50% prime power	118	



D	Dimension and Weight					
	Dimens	ion	Open	Silent	_	
	Length	(L)	4500mm			
	Width	(W)	1773mm	20FT		
	Height	(H)	2391mm			
	Net Wei	ight	9230KG			



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 S12H-PTA

GENERAL ENGINE DATA			
Type ————	4-Cycle, W	ater Coole	d
Aspiration —	Turbo-Cha	rged, After	Cooler
	(Jacket wa	iter to Cool	er)
Cylinder Arragemen ———————————————————————————————————		60°V	
No.of Cylinders		12	
Bore mm(in.)		150	(5.91)
Stroke mm(in.)		175	(6.89)
Displacement liter(ir ³)		37.11	(2265)
Dry Weight - Engine only - kg(lb ————		4300	(9482)
Wet Weight - Engine only - kg(lb ————		4560	(10055)
PERFORMANCE DATA			
Steady State Speed Stability Band at any Cor	nstant Loac		
Hydraulic (std.) or Electric Governor - %		±0.25	or better
Maximum Overspeed Capacity - rpm		2000	
Moment of inertia of Rotating Components -	$kg \cdot m^2(lbf \cdot ft^2)$	55.6	(1320)
(Includes Std.Flywheel)			
Cyclic Speed Variation with Flywheel a 180	00rpm ———————	1/569	
150	00rpm ————————————————————————————————————	1/335	
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 pi	ping		
With Clean Filter Element - mm F ₂ O (in.H ₂		400	(15.7)
With Dirty Filter Element - mm F ₂ O (in.H ₂ O)		635	(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	$(29 \sim 43)$
		5 ~ 6	$(71 \sim 86)$
Maximum Oil Temperature - °C(°F)			(230)
Oil Capacity of Standard Pan High - liter	(U.S.gal)	180	(47.6)
	(U.S.gal)		(39.6)
Total System Capacity (Includes Oil Filter) -			(52.8)
Maximum Angle of Installation (Std. Pan)	Front Down		, ,
(Engine Only)	Front Up	11°	
	Side to Side	22.5°	
COOLING SYSTEM			
Coolant Capactiy (Engine only) - liter (U.S.g	al	100	(26.4)
Maximum External Friction Head at Engine			(5.0)
Maximum Static Head of Coolant above Cra			(32.8)
Maximum Outlet Pressure of Engine Water F			(28.6)
Standard Thermostat (modulating)Range -°C		71 ~ 8:	5 (160 ~ 185)
Maximum Coolant Temperature at Engine O	utlet -°C(°F)	98	(208)
Minimum Coolant Expansion Space - % of S			,
Maximum Coolant Temperature at Intercoole	· · · · · · · · · · · · · · · · · · ·	-	
Maximum Air Restriction on Discharge Side		10	(0.4)
	2 - (-2 -)		` /







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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





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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