

Your Professional Power Assistant

Model:MT1400D5

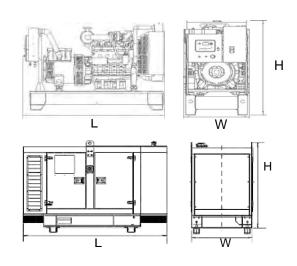
Powered by Mitsubishi

Output Rating	g			
MODEL		Power rating		Voltage available
		PRIME(1)	STANDBY(2)	
MT1400D5	400V/50HZ	1000KW	1120KW	380/220V 400/230V 415/240V
	PF:0.8	1250KVA	1400KVA	

General Information			
Model		MT1400D5	
Engine		S12R-PTA	
Speed control type		Electronic	
Phase		3	
Control System		Digital	
System voltage		12V/24V	
Frequency		50HZ	
Engine Speed(RPM)		1500	
Fuel	Standby power(2)	288	
Consumption L/hr	Prime Power(1)	261	
	75% prime power	202	
	50% prime power	146	



Dimension and Weight					
Dimension	Open	Silent			
Length (L)	4457mm				
Width (W)	2050mm	40FT			
Height (H)	2348mm				
Net Weight	10486KG				



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 approcedures 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 S12R-PTA

GENERALE ENGINE DITTI			
	4-(
-	Tu	_	
	(J:		er)
			(0)
` ,			(6.69)
			(7.09)
*			(2992)
Dry Weight - Engine only - kg(lb —		4800	(10584)
		5080	(11201)
PERFORMANCE DATA			
Steady State Speed Stability Band at a			
Hydraulic (std.) or Electric Governo	or - %	±0.25 o	r better
Maximum Overspeed Capacity - rpm		2100	
Moment of inertia of Rotating Compo-	nents - kg·m²(lbf·ft²)	75.3	(1787)
(Includes Std.Flywheel)			
Cyclic Speed Variation with Flywheel	l a 1800rpm ————————————————————————————————————	1/565	
	1500rpm		
	1200rpm ————————————————————————————————————	1/253	
ENGINE MOUNTING	-		
Maximum Bending Moment at Rear F	Face of Flywheel Housing - kg m(lbf ft)	450	(3256)
AIR INLET SYSTEM			
Maximum Intake Air Restriction (Incl	udes piping		
With Clean Filter Element - mm F ₂ O	O (in.H ₂ O)	400	(15.7)
	(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	2 \ 2 /		,
Oil Pressure at Idle - kgf/cm²(psi)		2 ~ 3	$(29 \sim 43)$
at Rate Speed - kgf/cm ² (p	osi)	5 ~ 6.5	
Maximum Oil Temperature - °C(°F)	,	110	(230)
	- liter (U.S.gal)		(39.6)
	- liter (U.S.gal)		(28.5)
	Filter) - liter (U.S.gal		(47.6)
Maximum Angle of Installation (Std. I			(1110)
(Engine Only)	Front Up	6.5°	
(Engine Siny)	Side to Side —	22.5°	
COOLING SYSTEM	5140 10 5140		
Coolant Capactiy (Engine only) - liter	(U.S.gal	125	(33.0)
Maximum External Friction Head at F	Engine Outlet - kgf/cn²(psi)		(5.0)
	ve Crankshaft Center - m(ft		(32.8)
	Water Pump - kgf/cn²(psi)		(28.6)
Standard Thermostat (modulating)Ran			` '
Maximum Coolant Temperature at En	gine Outlet-°C(°F)	98	(208)
Minimum Coolant Expansion Space	. % of System Canacity	1N	(200)
Maximum Coolant Tamparatura at Int	- % of System Capacity ————————————————————————————————————	10	
Maximum Air Restriction on Discharge	Side of Radiator and Fan-mm H ₂ O(in.H ₂ O)	10	(0.4)
Maximum An Resulction on Discharge S	Side of Radiator and Pan-IIIII Π_2 O(III. Π_2 O)	10	(U. 4)







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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