

Model:MT2500D5

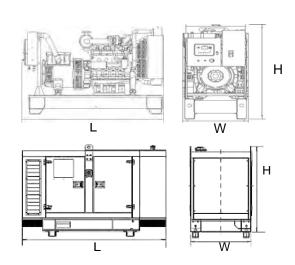
Powered by Mitsubishi

Output Rating	g			
MODEL		Power rating		Voltage available
		PRIME(1)	STANDBY(2)	
MT2500D5	400V/50HZ	1800KW	2000KW	380/220V 400/230V 415/240V
	PF:0.8	2250KVA	2500KVA	

General Information			
Model		MT2500D5	
Engine		S16R2-PTAW	
Speed control type		Electronic	
Phase		3	
Control System		Digital	
System voltage		12V/24V	
Frequency		50HZ	
Engine	Speed(RPM)	1500	
Fuel	Standby power(2)	397	
Consumption L/hr	Prime Power(1)	373	
	75% prime power	286	
	50% prime power	205	



Dimension and Weight					
Open	Silent				
NA	NA				
	Open				



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 S16R2-PTAW

Aspiration		
Cylinder Arragemen		vater,
No.of Cylinders		
Bore mm(in.)		(6.60)
		(6.69)
Stroke mm(in.)		(8.66)
Displacement liter(ir ³)		(4876)
Compression Ratic		(17090)
Dry Weight - Engine only - kg(lb) Wet Weight - Engine only - kg(lb)		(17089) (18081)
PERFORMANCE DATA		
Steady State Speed Stability Band at any Constant Loa		
	±0.25 c	or better
Maximum Overspeed Capacity - rpn		51 0 0110 1
Moment of inertia of Rotating Components - kg·m²(lbf·ft²)		(781)
(Includes Std.Flywheel)		(701)
Cyclic Speed Variation with Flywheel at 1500rpn	1/210	
ENGINE MOUNTING		
Maximum Bending Moment at Rear Face of Flywheel Housing AIR INLET SYSTEM	; - kε· m(lbf· ft)450	(3256)
Maximum Intake Air Restriction (Includes piping	400	
With Clean Filter Element - mm F ₂ O (in.H ₂ O)		(15.7)
With Dirty Filter Element - mm F_2O (in. H_2O)EXHAUST SYSTEM	635	(25.0)
2 - (600	(23.6)
LUBRICATION SYSTEM		
\mathcal{E} \mathcal{A} \mathcal{A}	2 ~ 3	$(29 \sim 43)$
at Rate Speed - kgf/cn ² (psi)	4 ~ 6	$(57 \sim 86)$
Maximum Oil Temperature - °C(°F)		(230)
Oil Capacity of Standard Pan High - liter (U.S.gal)		(68.7)
Low - liter (U.S.gal)		(52.8)
Total System Capacity (Includes Oil Filter) - liter (U.S.gal		(76.6)
Maximum External Friction Head at External Oil Cooler - kgf/d		(11.7)
	6°	
	6°	
	25°	
COOLING SYSTEM		
Coolant Capactiy of Jacket (Engine Only) - liter (U.S.gal		(41.5)
Coolant Capactiy of Air Cooler (Engine Only) - liter (U.S.gal-		(8.7)
Maximum External Friction Head at Engine Outlet - kgf/cr²(psi		(5.0)
Maximum Static Head of Coolant above Crankshaft Center - m	· ·	(32.8)
	71 ~ 85	
Standard Thermostat (modulating) Range of Air cooler C(F)	42 ~ 55	o (108 ~ 131)
Standard Thermostat (modulating)Range of Air cooler °C(°F)		(-00)
	98	(208)







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