

Model:M3250D5

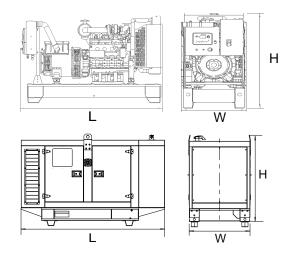
Powered by MTU

Output Ratin	g			
MODEL		Powe	r rating	Voltage available
		PRIME(1)	STANDBY(2)	
M3250D5	400V/50HZ	2400KW	2600KW	380/220V 400/230V 415/240V
	PF:0.8	3000KVA	3250KVA	

General Information		
Model		M3250D5
	Engine	20V4000G63L
Speed	d control type	ADEC
Phase		3
Control System		Digital
System voltage		24V
Frequency		50HZ
Engine Speed(RPM)		1500
	Standby power(2)	N/A
Fuel Consumption	Prime Power(1)	193
	75% prime power	195
(g/kwh)	50% prime power	205



Dimension and We	eight	
Dimension	Open	
Length (L)	7238mm	
Width (W)	2645mm	
Height (H)	2320mm	
Net Weight	15960KG	



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

BASIC TECHNICAL DATA

Operating method	Four stroke Diesel
Combustion system	Direction Injection
Bore/Stroke	170/210mm
Displacement, Total	95.4Liter
Number of cylinders	20
Compression ratio	16.5:1
Flywheel housing flange	SAE 00
Flywhell interface	21"
Starter ring-gear teeth no	182
Number of intercooler	1
Number of Turbocharger	2

STARTER SYSTEM

Starter, rated voltage	24V
,	
Starter,rated requirement max	N/A
Starter, power requirement at firing speed	ΝΙ/Δ
Starter, power requirement at ming speed	I N/ /\

COOLANT SYSTEM

Coolant temperature(at engine outlet to cooking equipment)100 °C
Coolant temperature after engine,alarm102°C
Coolant temperature after engine, shutdown104°C
Coolant antifreeze content,max.permissible50%
Cooling equipment:coolant flow rate83 m³/sec
Coolant pump:inlet pressure,min0.4bar
Coolant pump:inlet pressure,max1.50bar
Pressure loss in off-engine cooling system,max.permissible0.7bar
Cooling equipment:height above engine max.permissible15.2m
Cooling equipment:design pressure2.5bar

Recommended coolant:

Recommended coolant: 50% anti freeze / 50% water. For complete details of recommended coolant specifications, refer to the Operation and Maintenance Manual for this engine model.

COOLANT SYSTEM, CHARGE-AIR COOLANT CIRCUIT

Coolant temperature before intercooler(engine inlet)	55°C
Coolant antifree content,max.permissible	50%
Cooling equipment:coolant flow rate	30
Pressure loss in off-engine cooling system max.permissible-	0.7bar
Cooling equipment:height above engine max.permissible	15.2m
Cooling equipment:design pressure max.permissible	2.5bar

Combustion air	3.2 m³/sec
Combustion air volume flow	15mbar
Intake air depression	50mbar

FUEL SYSTEM

Fuel supply flow,max	25l/min
Fuel temperature,max	55 °C
Fuel pressure at supply connection on engine, max.admissibl	-+1.5 bar
Fuel pressure at supply connection on engine, min. admissible	-0.1 bar

FUEL SPECIFICATION

USA Fed Off Highway - EPA2D 89.330-96 Europe Off Highway - CEC RF-06-99 Note: For further information on fuel specifications and restrictions, refer to the OMM Fuels section for this engine model.

FUEL CONSUMPTION

Power rating %			
g/kwh			
110	100	75	50
N/A	193	195	205

EXHAUST SYSTEM

Exhaust volume flow	8.5 m³/s	sec
Exhaust temperature after turbocharger	500	°C
Exhause backpressure limit value	85m	nbar

HEAT DISSIPATION

Engine coolant dissipation 100% load	1160kw
Charge-air heat dissipation 100% load	600kw
Radiation and convection heat, engine	105kw







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