

• Model: M3250E5

Powered by MTU





■ Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	3000	3250
Power (kW)	2400	2600
Rated speed (r.p.m)	15	00
Standard voltage (V)	400/	230V
Rated at power factor(cos phi) 0.	8





AGG Power gensets are compliant with ISO 9001 and CE standard, 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) PRP (Prime Power):

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power):

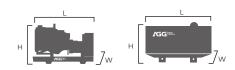
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Powers	ESF)	PRI	-	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	3250	2600	3000	2400	4521.6
400/230	3250	2600	3000	2400	4691.1
380/220	3250	2600	3000	2400	4938.0

Performand	e Data	
	Model	M3250E5
Er	igine brand	MTU
En	gine model	20V4000G63L
Spee	d control type	ADEC
	Phase	3
Cor	ntrol system	Digital
Starte	r motor voltage	24V
Frequency		50HZ
Engin	e speed (RPM)	1500
	100% standby power	716.32
Fuel	100% prime power	651.2
Consumption	75% prime power	501.12
(L/H)	50% prime power	352.73

Standard reference Conditions

relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2



Dimension and Weight		
Dimension	Open	Silent
Length (L)	7160mm	12192mm
Width (W)	2555mm	2438mm
Height (H)	2930mm	2896mm
Net Weight	-	-
Fuel Tank (L)	-	-

Note: This parameters allows for some acceptable deviations.



■ Engine Specification: 20V4000G63L

Basic technical data	
Operated method	Four stroke diesel
Combustion system	Direction injection
Bore	170mm
Stroke	210mm
Displacement, total	95.40 L
Number of cylinders	20
Compression ratio	16.5:1
Flywheel housing flange	SAE O
Number of intercooler	1
Number of Turbocharger	2

Cooling system	
Coolant temperature(at engine	
outlet to cooking equipment)	100° C
Coolant temperature after	
engine, alarm	102° C
Coolant temperature after engin	e,
shutdown	104° C
Coolant antifreeze content, max.	
permissible	50%
Coolant flow rate	83.0 m3/h
Coolant pump: inlet pressure, mi	n O.4 bar
Coolant pump: inlet pressure, ma	ax 1.50 bar
Pressure loss in off-engine coolir	ng
system, max. permissible	0.7 bar
, , ,	
Cooling equipment: height above	
Cooling equipment: height above engine max. permissible	15.2 m

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

Fuel system	
Fuel supply flow, max.	8.0 I/min
Fuel return flow, max.	3.5 l/min
Fuel temperature differential	
before/after engine	40°C
Fuel fine filter (main circuit):	
particle retention	0.005mm

Starter system		
Starter, rated voltage	24V	
Starter, rated requirement max	TBD	
Starter, power requirement at		
firing speed	TBD	

Exhaust system	
Exhaust volume flow	8.5 m3/sec
Exhaust temperature	
after turbocharger	500° C
Exhaust backpressure limite	
value	85 mbar

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

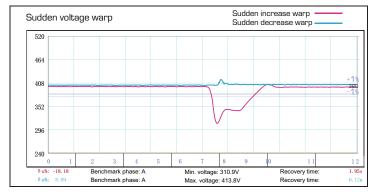


Alternator Specification

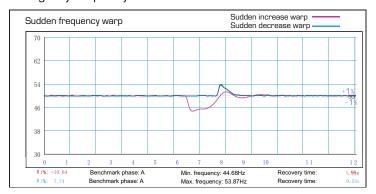
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible disc



Emergency voltage curve



Emergency frequency curve



Options

Engine	Alternator	Generator Sets	Fuel System
 Water Jacket Pre-heater Fuel heater 	 Winding Temp measuring Instrument Alternator Pre-heater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater Winding and bearing RTD 	 Tools with the machine Extended range fuel tank Bunded fuel tank 	 Low fuel level alarm Automatic fuel feeding system Fuel T-valves
Canopy	Lub oil system	Cooling System	Control Panel
Rental type CanopyTrailer	Oil Pre-heaterOil temp sensor	Front heat protection	 Remote control panel ATS Synchronizing controller Adjustable earth leakage relay

Control Panel

Configuration

- Emergency stop button
- Protection MCB
- Battery charger
- Integrated aviation plug
- ATS connection
- Digital control module

Features

- 3 phase generator set monitoring
- Support of engines equipped with electronic control unit.
- Comprehensive diagnostic message
- Automatic or manual start/stop of the gensets
- Push buttons for simple control, lamp test
- Graphic back-lit LCD display
- Parameters adjustable via keyboard or PC
- Mains measurements (50HZ/60HZ)
- Generator measurements (50HZ/60HZ)
- Comprehensive shutdown or warning on fault condition
- 3 phase Generator protections
 - Over-/under voltage
 - -Over-/under frequency
 - -Current/voltage asymmetry
 - -Over current/overload
- 3 phase AMF function
 - Over-/under frequency
 - Over-/under voltage
 - Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measurement
- Configurable programmable binary inputs and outputs
- Warm-up and cooling functions
- Generator C.B. and Mains C.B. control with feedback and return timer
- RS232 interface
- Modem communication support
- Hours counter
- Sealed to Ip65
- Event log

Benefits

- Less wiring and components
- Integrated solution
- Less engineering and programming
- User friendly set-up and button layout
- Module can be configured to suit individual applications
- PC software for simplified configuration
- Wide range of communication capabilities

Operation conditions

- Operation temp: -20 $^{\circ}$ C to + 70 $^{\circ}$ C
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration: 5-25Hz, ± 1.6 mm
 - 5-100Hz, a=4g
- Shocks: a= 500m/s²

Options

- Ethernet interface (Remote monitoring and control)
- GSM modem/wireless internet (Remote monitoring and control)
- RS232-RS485 Dual port interface
- Synchronizing control panel
- Distribution board with sockets kit and power busbar
- Battery trickle charge ammeter
- Earth leakage protection
- Earth fault protection
- Low fuel level alarm
- Low fuel level shutdown
- High fuel level alarm
- Fuel transfer system control
- Low coolant level shutdown
- High lube oil temp shutdown
- Overload via alarm switch on breaker
- Engine coolant heater controls
- Control panel heater
- Speed adjust switch
- Oil temp displayed on LCD screen
- Additional 8 inputs and outputs



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