

# • Model: M1375E5

**Powered by MTU** 





### Generator Specification

Service F	P <b>RP</b> (1)	<b>ESP</b> (2)
Power (kVA) 1	250	1375
Power (kW) 1	000	1100
Rated speed ( r.p.m)	1500	
Standard voltage (V)	400/23	O V
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	ES	P	PRI	P	Standby
Voltage (V)	KVA	KW	KVA	кw	Amps
415/240	1375	1100	1250	1000	1913.0
400/230	1375	1100	1250	1000	1984.7
380/220	1375	1100	1250	1000	2089.2

Performance Data			
Model		M1375E5	
Er	igine brand	MTU	
Er	igine model	18V2000G26F	
Spee	d control type	ADEC	
Phase		3	
Control system		Digital	
Starter motor voltage		24 V	
Frequency		50 HZ	
Engine speed (RPM)		1500	
	100% standby power	287.17	
Fuel Consumption (L/H)	100% prime power	261.07	
	75% prime power	194.82	
	50% prime power	133.81	

#### Standard reference Conditions

Note: Standard reference condition 25°C[77°F] air inlet temp, 100m(328ft) A.S.L 30% 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) 5785mm 6058mm Width (W) 2233mm 2438mm Height (H) 2320mm 2896mm Net Weight \_ Fuel Tank (L) \_ \_

Note: This parameters allows for some acceptable deviations.

# Engine Specification: 18V2000G26F

Basic technical data	
Operated method	Four stroke diesel
Combustion system	Direction injection
Bore	170mm
Stroke	210mm
Displacement, total	40.2 L
Number of cylinders	18
Compression ratio	16.5:1
Flywheel housing flange	SAE O
Number of intercooler	1
Number of Turbocharger	4

Fuel system	
Fuel supply flow, max.	30 l/min
Fuel return flow, max.	30 l/min
Fuel temperature differential	
before/after engine	TBD
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	

Cooling system		
Coolant temperature(at engine		
outlet to cooking equipment)	100 °C	
Coolant temperature after		
engine, alarm	102 °C	
Coolant temperature after engi	ne,	
shutdown	104 °C	
Coolant antifreeze content, max	Χ.	
permissible	50%	
Coolant flow rate	56 m3/h	
Coolant pump: inlet pressure, n	nin 0.4 bar	
Coolant pump: inlet pressure, n	e, max 1.50 bar	
Pressure loss in off-engine cool	ing	
system, max. permissible	0.7 bar	
Cooling equipment: height abov	ent: height above	
engine max. permissible	15.2 m	
Cooling equipment: design pres	pressure 2.5 bar	
Recommended coolant 50	ant 50% anti freeze/50% water	

Combustion air	
Combustion air volume flow	1.80 m3/sec
Intake air depression	15 mbar

Exhaust system	
Exhaust volume flow	4.50 m3/sec
Exhaust temperature	
after turbocharger	460 °C
Exhaust backpressure limite	
value	85 mbar

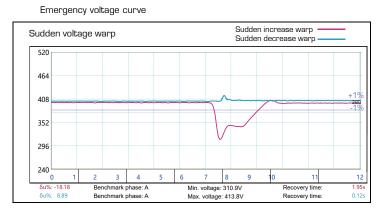
Heat dissipation	
Engine coolant dissipation	
100% load	580 kw
Charge-air heat dissipation	
100% load	260 kw
Radiation and convection	
heat, engine	75 kw



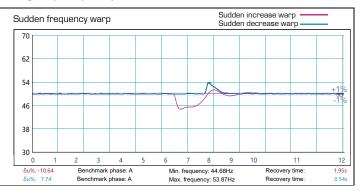
# Alternator Specification

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





#### Emergency frequency curve



# Options

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



#### 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



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All information in the document is substantially correct a the time of printing but may be subsequently altered by the company.

#### 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 °C to + 70 °C
- Storage temp: -30 ℃ to + 80 ℃
- Operating humidity: 95% w/o condensation
  - Vibration : 5-25Hz, ±1.6mm 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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