

BA.A-MG1000KW Technical Specification

Gas Generator Set with MTU 16V165Z_LD_K Engine



Gas engine **16V165Z_LD_K** is newly developed products with modified designs and technical innovations, which are manufacture on the basis of the product license of diesel engines 396 that was introduced from MTU Germany.

Engine Data

Name	16V165Z _L D _K	
Type	Four stroke, turbo charge, intercooled, electronic mix	
Cylinder arrangement	V Type, 90° angle	
Bore×Stroke(mm)	165×185	
Displacement per Cylinder (L)	3.96	
Total Cylinders	16	
Total Displacement (L)	63.3	
Rated Power (kW)	1000	
Rated Speed (r/min)	1500	
Lube Consumption (g/(kW·h))		
Exhaust temperature before Turbo	30	
Exhausted Water Temperature	5	
Lube oil Disc Temperature	0	
Lube oil Pressure of main piping (kPa)	400 >800	
Stable Adjustable Speed Rate (%)	5% adjustable	
Cooling method	Forced Water Cooling	
Lube Method	Pressure and splashing lube	
Cylinder Numbering	Generator	A1-A2-A3-A4-A5-A6-A7-A8
	side	B1-B2-B3-B4-B5-B6-B7-B8
Ignition	Sparking plug	
Starting way	24VDC Motor starting	
Rotation direction	Anti-clockwise (from the generator side)	
Output type	By flying wheel	
Outer Dimension LxHxW (mm)	3325×1540×2050	
Net weight (kg)	8600	

Technical Features

Set	1000GF-RTGas engine generator set
Engine type	16V165Z _L D _K
Generator type	1FC6506-4
Control panel type	PLT1200A.00
Rate power(kW)	1000
Rate Current (A)	1804
Rate Voltage (V)	400
Factor COS Φ	0.8Lagging
Rated Frequency	50
Starting mode	24VDC Motor
Voltage adjusting	Automatic
Governing method	Electronic
Exciter	Brushless
Connection type	Three phase four wire
Circulation cooling method	Open or closed
Connection method	Flexible coupling connection
Outer Dimension LxHxW (mm)	5100×1618×2100
Set quality kg	12600

Gas Engine

Gas engine referenced to and incorporate the advantages of the gas engine made abroad. New fuel combustion technology suitable for 396 engine has been developed together with supercharging, supervising and controlling system with combined functions adjusting, controlling, self-inspecting, safety protection and so on. The requirements of different air density and low-pressure combustion gas can be satisfied by mixing combustion gas before the air compression. The advanced angle of ignition and igniting amount can be adjusted automatically according to the different working conditions by powerful ignition system with micro processing capability. Accurate controlled rotating speed and safety operation can be achieved by adopting the accurate speed control system and the ignition inspection system, which can keep the engine working in its best condition all the time. The percentage between gas and air can be adjusted quickly by adopting the technology of thin-air combustion, one-point injection and closed loop control of gas-air percentage, which make the emitting, the safety and the index of the economic effects improved greatly.

Alternator

Gas generating sets driven by gas engine as their original power are equipped with 3-phase brushless synchronous AC generator in phase compounded self-excitation. These kinds of generators are made on the basis of Siemens Technology.

Controller

Matured Woodward control system and display instrument box with LCD and so on are used, which ensure the performance stability with on-set or multiple-set operation. The generating sets are compacted with less weight, convenience in transportation and can be used for stationary or moveable stations. Variety of gases, such as nature gas, coal mine gas, coal gas, marsh gas suitable for gas engines due to the usage of the reliable combustion gas technology.

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