BA.A-M712 Diesel Generating Set

570KW / 712KVA 520KW / 650KVA Standby Power (50Hz) Prime Power (50Hz)

General Features:

- > Engine (MTU/12V2000G23)
- Radiator 50C max, fans are driven belt, with safety guard
- 24V charge alternator
- Alternator: single bearing alternator IP23, Insulation class H/H
- Absorber
- Dry type air filter, double fuel filter, oil filter, Coolant filter
- Main line circuit breaker
- Permanent Magnet Generator (PMG)
- > Standard control panel
- > Two12V batteries, rack and cable
- > Ripple flex exhaust pipe, exhaust siphon,
- > flange, muffler
- User manual



Generator Ratings							
Prime	Standby	Standby	P.F	Phas	HZ	Voltage	
Ratings	Ratings	Amps	(COS⊄)	е			
(KW/KVA)	(KW/KVA)						
520/650	570/712	935	0.8	3	50	440/254	
520/650	570/712	991	0.8	3	50	415/240	
520/650	570/712	1028	0.8	3	50	400/230	
520/650	570/712	1083	0.8	3	50	380/220	

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528); A 10% overload capability is available for a

period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Sales Promises

Bargh afshan alborz provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: a, 15 months, counted on the day Bargh afshan alborz sold to the first buyer; b, One year after installation; c, 1000 running hours (accumulated); subject to the earlier one. Service and parts are available from Bargh afshan alborz or distributors in your location.

BA.A-M712	Diesel Generating Set		
	ENGINE DATA		
Manufacturer / Model:	MTU/12V2000G23, 4-cycle		
Air Intake System:	Turbo, Air/Air DC		
Fuel System:	Electronic Fuel Injection System		
Cylinder Arrangement:	12 in "V"		
Displacement:	23.88L		
Bore and Stroke:	130*150 (mm)		
Compression Ratio:	16.0:		
Rated RPM:	1500rpm		
Max. Standby Power at Rated RPM:	625KW/886HP		
Governor Type:	MDEC		
	Exhaust System		
Exhaust Gas Flow:	132.6m ₃ /min		
Exhaust Temperature:	550°C		
Max Back Pressure:	5 kPa		
	Air Intake System		
Max Intake Restriction:	3 kPa		
Consumption:	47.4 m ₃ /min		
Air Flow:	726 m₃/min		
	Fuel System		
100%(Prime Power) Load:	136.5 L/h		
75%(Prime Power) Load:	124.5 L/h		
50%(Prime Power) Load::	92.4 L/h		
	Oil System		
Total Oil Capacity:	82 L		
Oil Consumption:	0.5% fuel consumption		
Engine Oil Tank Capacity:	67 L		
Oil Pressure at Rated RPM:	620-720kPa		
T + 10 1 + 0 ''	Cooling System		
Total Coolant Capacity:	174 L		
Thermostat:	82-95°C		
Max Water Temperature:	102°C		

BA.A-M712 Diesel Generating Set

ALTERNATOR SPECIFICATION

GENERAL DATA

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

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	Alternator Data

Number of Phase: 3

Connecting Type: 3 Phase and 4 Wires, "Y" type connecting

Number of Bearing:1Power Factor:0.8Protection Grade:IP23Altitude:≤1000m

Exciter Type: Brushless, self-exciting

Insulation Class, Temperature Rise:H/HTelephone Influence Factor (TIF):<50</td>THF:<2%</td>Voltage Regulation, Steady State:≤±1%Alternator Capacity:670KVAAlternator Efficiencies:94.9%Air Cooling Flow:1.035 m₃/s

GENERATING SET DATA

Voltage Regulation:≥±5%Voltage Regulation, Stead State:≤±1%Sudden Voltage Warp (100% Sudden Reduce):≤+20%Sudden Voltage Warp (Sudden Increase):≤-15%Voltage Stable Time (100% Sudden Reduce):≤4SVoltage Stable Time (Sudden Increase)≤4S

Frequency Regulation, Stead State: 0-5% adjustable

Frequency Waving: ≤0.5%
Sudden Frequency Warp (100% Sudden Reduce): ≤+10%
Sudden Frequency Warp (Sudden Increase): ≤-7%
Frequency Recovery Time (100% Sudden Reduce): ≤3S
Frequency Recovery Time (Sudden Increase): ≤3S

BA.A-M712	Diesel Generating	Set
Options		
Engine	Fuel System	Control System
Heater 2KW & 4KW	Daily Fuel Tank	Auto Control Panel
Battery Charger 3.5A & 7A	Base Fuel Tank	Remote Control Panel
	Water Separator	Auto Transfer Switch (ATS)
	Fuel Level Sensor	Paralleling System
Anti-Condensation Heater	Rainproof Type	Engine Parts Drawing List
Drop CT (For Paralleling)	Soundproof Type	Spare Parts
	Container Type	
Dimension & Weight		
Standard Configuration	With Base Fuel Tank	Soundproof Type
(Open Type)		
Overall Size: 4000 (mm)	Overall Size: 4000 (mm)	Overall Size:20'ft container
*1580 (mm) *2110 (mm)	*1580 (mm) *2030 (mm)	
Weight: 5300kg	Weight: 5350kg	Weight: 6950kg

BA.A-M712

Diesel Generating Set

Standard Control Panel
Auto Module Control Panel

Auto Module Control Panel is the configuration for nobody on duty controlling generators. This kind of panel adopts auto module control system, with large LCD display to show the menu.

TELYS Microprocessor control panel Type S2500



Features: **\$2500**-can receive remote output signal from ATS and realize auto start and stop of generators.

\$5000-Auto Mains Failure controller, can realize all functions of \$2500, furthermore can detect ATS and control directly.

Auto Parallel Control Panel

Automatic Parallel Control Panel This new automatic parallel system adopts intelligent modules, inserted and folded installed, no need the peripheral relay and logic circuit.

TELYS Microprocessor control panel Type S7000



The main switch adopts electronic breaker or frame breaker, combined together with the generator, which is very reliable. One generator, one panel. The panel can be used both for singly and parallel. It is only need to parallel generator with such panel when the capability needs to be enlarged in the future.