

## Technical Data

**BA.A-C433**
**GAS Generating Set**

CG433  
346KW / 433KVA  
315KW / 394KVA

MODEL  
Standby Power (50Hz)  
Prime Power (50Hz)

### General Features:

- Engine (Cummins **QSK 19G**)
- Radiator 50C max, fans are driven by 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
- Two 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler
- User manual



Generator Ratings						
Prime Ratings (KW/KVA)	Standby Ratings (KW/KVA)	Standby Amps	P.F (COS $\phi$ )	Phase	HZ	Voltage
315/394	346/433	520	0.8	3	50	440/254
315/394	346/433	560	0.8	3	50	415/240
315/394	346/433	606	0.8	3	50	400/230
315/394	346/433	642	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 (eq 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.

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	<b>ENGINE DATA</b>
Manufacturer / Model:	Cummins QSK 19G
Air Intake System:	Turbocharged Aftercooled
Fuel System:	Producer Gas
Cylinder Arrangement:	6 cylinder
Displacement:	19 liters
Bore and Stroke:	159*159 (mm)
Compression Ratio:	11:1
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	346KW/470HP
Governor Type:	Governor Electronic
	<b>Air Intake System</b>
Air Flow:	378 L/s
	<b>Fuel System</b>
100%( Prime Power) Load:	120 SCM/Hr
	<b>Cooling System</b>
Thermostat:	50°C
Max Water Temperature:	104°C

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ALTERNATOR SPECIFICATION			
GENERAL DATA			
Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.			
Alternator Data			
Number of Phase:	3		
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting		
Number of Bearing:	1		
Power Factor:	0.8		
Protection Grade:	IP23		
Altitude:	≤1000m		
Exciter Type:	Brushless, self-exciting		
Insulation Class, Temperature Rise:	H/H		
Telephone Influence Factor (TIF):	<50		
THF:	<2%		
Voltage Regulation, Steady State:	≤±1%		
Alternator Capacity:	433KVA		
Alternator Efficiencies:			
Air Cooling Flow:			
GENERATING SET DATA			
Voltage Regulation:	≥±5%		
Voltage Regulation, Stead State:	≤±1%		
Sudden Voltage Warp (100% Sudden Reduce):	≤+25%		
Sudden Voltage Warp (Sudden Increase):	≤-20%		
Voltage Stable Time (100% Sudden Reduce):	≤6S		
Voltage Stable Time (Sudden Increase)	≤6S		
Frequency Regulation, Stead State:	≤5%		
Frequency Waving:	≤0.5%		
Sudden Frequency Warp (100% Sudden Reduce):	≤+12%		
Sudden Frequency Warp (Sudden Increase):	≤-10%		
Frequency Recovery Time (100% Sudden Reduce):	≤5S		
Frequency Recovery Time (Sudden Increase):	≤5S		

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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 (Open Type)	With Base Fuel Tank	Soundproof Type	

Overall Size: 3490 (mm)

\*1266 (mm) \*1792 (mm)

Weight: 3856 kg

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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.



Features: MRS10-can receive remote output signal from ATS and realize auto start and stop of generators.

MRS16-can realize all functions of MRS10, add RS232 interface which can communicate with PC to realize remote operation.

AMF25-Auto Mains Failure controller, can realize all functions of MRS16, 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 .



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.