MODEL	BF-C450
Standby Power（50Hz）	360KW / 450KVA
Prime Power（50Hz）	N/A

Standard Features

General Features:
Engine (CCEC Cummins NTAA855-G7A)
Radiator 40^{O}C 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
Standard control panel
Two12V batteries, rack and cable
Ripple flex exhaust pipe, exhaust siphon, flange, muffler
User manual

PHOTO FOR REFERENCE ONLY

Generator Ratings

Voltage	HZ	Phase	P.F (COSΦ)	Standby Amps	Standby Ratings (KW/KVA)
254/440	50	3	0.8	590	360/450
240/415	50	3	0.8	626	360/450
230/400	50	3	0.8	649	360/450
220/380	50	3	0.8	684	360/450

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

Baifa Power 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 BAIFA 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 Baifa Power or distributors in your location.

ENGINE DATA

Manufacturer / Model:	CCEC Cummins NTAA855-G7A, 4-cycle
Air Intake System:	Turbo, Air/Air cooling
Fuel System:	PT type fuel pump, EFC
Cylinder Arrangement:	6 in line
Displacement:	14L
Bore and Stroke:	140*152（mm）
Compression Ratio:	14.0:1
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	407KW/545HP
Governor Type:	Electronic
Exhaust System	
Exhaust Gas Flow:	1240L/s
Exhaust Temperature:	473℃
Max Back Pressure:	10kPa
Air Intake System	
Max Intake Restriction:	6.22kPa
Consumption:	549L/s
Air Flow:	8180L/s
Fuel System	
100%(Prime Power) Load:	200 g/kWh
75%(Prime Power) Load:	203 g/kWh
50%(Prime Power) Load::	213 g/kWh
100%(Prime Power) Load:	94.2L/h
Oil System	
Total Oil Capacity:	38.6L
Oil Consumption:	≤0.24L/h
Engine Oil Tank Capacity:	28.4~36L
Oil Pressure at Rated RPM:	241-345kPa
Cooling System	
Total Coolant Capacity:	63.9L
Thermostat:	82-94℃
Max Water Temperature:	96℃

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%
Alternator Capacity:	400KVA
Alternator Efficiencies:	93.4%

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

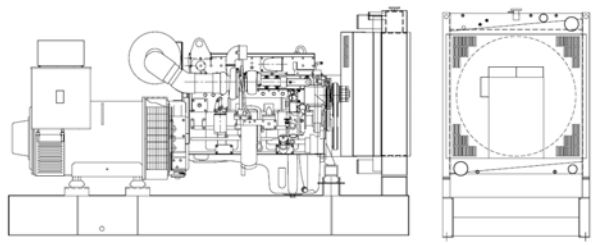
Standard Features

◇ Baifa Standard Auto Control System
◇ Starting batteries (Maintenance-Free & Watering-Free) with connective wires
◇ Documents
◇ MCCB
◇ Oil Drain Valve
◇ Special tool for Cummins engine
◇ Exhaust System(including until muffler)

Options

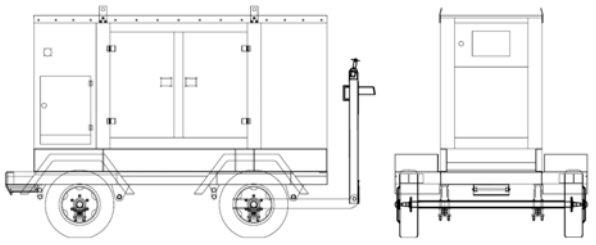
◇ Base Fuel Tank
◇ Daily Fuel Tank
◇ Battery Charger
◇ Engine Heater
◇ Water Separator
◇ Permanent Magnet Generator(PMG)
◇ Alternator Heater
◇ Rainproof Type
◇ Soundproof Type
◇ Trailer Type
◇ Remote Control Panel
◇ Automatic Transfer Switch
◇ Paralleling System
◇ Switch box
◇ Spare Parts

Dimension & Weight



Standard Configuration (Open Type)
Overall Size: 3250×1160×1850（mm）
Weight: 3100kg

With Base Fuel Tank
Overall Size: 3250×1160×1850（mm）
Weight: 3280kg



Soundproof Type
Overall Size: 4225×1460×2150（mm）
Weight: 4520kg

Trailer Type
Overall Size: 5030×2440×2880（mm）
Weight: 5880kg

Standard Control Panel

Baifa Standard Control Panel uses micro processing technique integrating digital, intelligent and network techniques which can carry out functions including auto start/stop, data measure, alarming. The controller uses LCD display, optional Chinese and English display interface with operation easy and reliable. It can be widely used in all types of generator automatic control system for compact structure, advanced circuits, simple connections and high reliability

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.