MODEL	BF-V670-60
Standby Power（60Hz）	550KW / 688KVA
Prime Power（60Hz）	500KW / 625KVA

Standard Features

General Features:
Engine（VOLVO TAD1642GE）
Radiator 55°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, fuel filter, oil filter, pre-filter, coolant filter
Main line circuit breaker
Standard control panel
Oil drain pump
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）	Prime Ratings（KW/KVA）
480/277	60	3	0.8	827	550/688	500/625
460/266	60	3	0.8	863	550/688	500/625
440/254	60	3	0.8	902	550/688	500/625
416/240	60	3	0.8	954	550/688	500/625

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:	VOLVO TAD1642GE, 4-cycle
Air Intake System:	Turbo, Air/Air Cooling
Fuel System:	Elec. Injection, Elec. Fuel System
Cylinder Arrangement:	6 in line
Displacement:	16.12L
Bore and Stroke:	144*165（mm）
Compression Ratio:	16.5
Rated RPM:	1800rpm
Max. Standby Power at Rated RPM:	585KW/796HP (with fan)
Governor Type:	EMS2
Exhaust System	
Exhaust Gas Flow:	117.6m^3/min
Exhaust Temperature:	512℃
Max Back Pressure:	10kPa
Air Intake System	
Max Intake Restriction:	5kPa
Burning Capacity:	46.6m^3/min
Air Flow:	666m^3/min
Fuel System	
100%(Prime Power) Load:	209 g/KWh
75%(Prime Power) Load:	202 g/KWh
50%(Prime Power) Load:	204 g/KWh
100%(Prime Power) Load:	129.6 L/h
Oil System	
Total Oil Capacity:	48L
Oil Consumption:	0.12L/h
Engine Oil Tank Capacity:	32~42L
Oil Pressure at Rated RPM:	300-650kPa
Cooling System	
Total Coolant Capacity:	60L
Thermostat:	86-96℃
Max Water Temperature:	103℃

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:	713KVA
Alternator Efficiencies:	94.9%

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):	≤4S
Voltage Stable Time (Sudden Increase)	≤4S
Frequency Regulation, Stead State:	≤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
Noise Level:	120dB

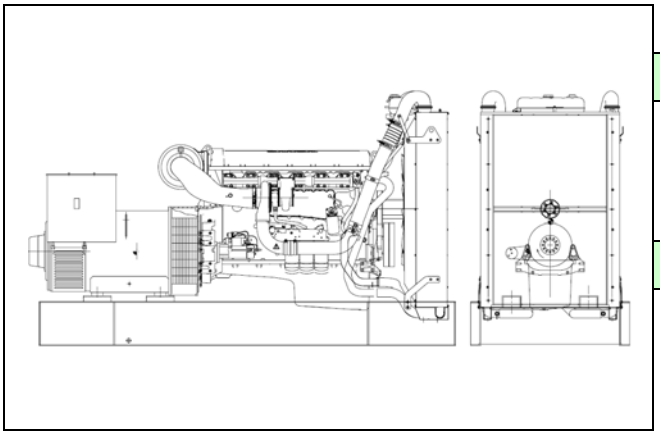
Standard Features

- ◇ “COMAP” Standard Auto Control System
- ◇ MCCB
- ◇ Special Coolant for Volvo
- ◇ Base Fuel Tank
- ◇ Starting batteries (Maintenance-Free & Watering-Free) with connective wires
- ◇ Water Separator（Volvo）
- ◇ Oil Drain Pump
- ◇ Exhaust System(including until muffler)
- ◇ Documents

Options

- ◇ Daily Fuel Tank
- ◇ Permanent Magnet Generator(PMG)
- ◇ Remote Control Panel
- ◇ Battery Charger
- ◇ Rainproof Type
- ◇ Automatic Transfer Switch
- ◇ Engine Heater
- ◇ Soundproof Type
- ◇ Switchboard
- ◇ Alternator Heater
- ◇ Trailer Type
- ◇ Paralleling System
- ◇ Engine Air Intake Heater
- ◇ Spare Parts

Dimension & Weight



Standard Configuration (Open Type)

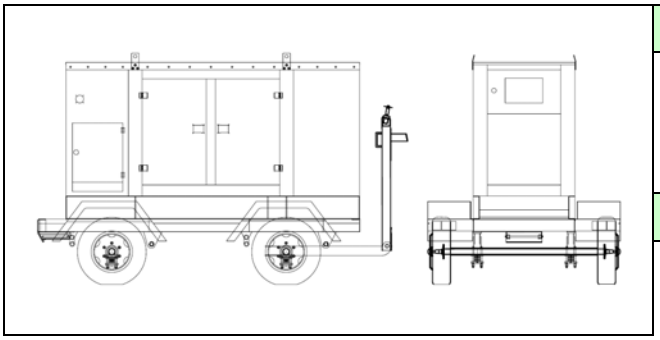
Overall Size: 3300*1275*1980（mm）

Weight: 3610kg

With Base Fuel Tank

Overall Size: 3300*1275*2030（mm）

Weight: 3880kg



Soundproof Type

Overall Size: 4630*1660*2250（mm）

Weight: 5590kg

Trailer Type

Overall Size: 5440*2540*3100（mm）

Weight:7040kg

Standard Control Panel

Baifa Standard Control Panel is the basic configuration for normal operation and usage, it is of some advantages such as easy to operate, various function and well protection. Operative buttons such as Turn On, Per-heat, Starting, Stop (Emergency Stop) on the panel. While malfunction occurs, control panel will stop the generator and also alarm with light or buzz.

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.