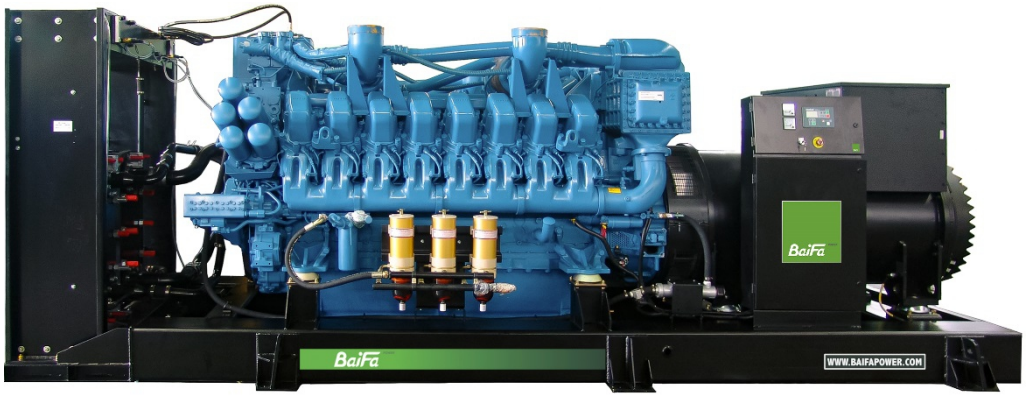
GENERATOR SET | TECHNICAL SHEETS

MODEL: BF-M3000-60

440V | 1800rpm | 60Hz



ESP Standby Power	3438kVA	**PRP** Prime Power	3125kVA
ENGINE	MTU 20V4000G74S	**ALTERNATOR**	MECC ALTE ECO46-VL

GENERAL FEATURES

Engine: MTU 20V4000G74S	Alternator: single bearing, IP23, insulation class H
40℃ radiator, fans are driven by motor, with safety guard	Dry type air filter, fuel filter & oil filter
Vibration damper	Standard control panel
24V charging alternator	Exhaust bellows, elbows, flange & muffler
Lead-acid batteries, rack and cables	User manual

Comprehensive Solutions For

POWER GENERATION

MODEL: BF-M3000-60

440V | 1800rpm | 60Hz

GENERATOR RATINGS

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	4135	2750kW/3438kVA	2500kW/3125kVA
460/266	60	3	0.8	4315	2750kW/3438kVA	2500kW/3125kVA
440/254	60	3	0.8	4511	2750kW/3438kVA	2500kW/3125kVA
416/240	60	3	0.8	4772	2750kW/3438kVA	2500kW/3125kVA

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820（eqv ISO 8528）; 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: 15 months from the date BAIFA sold to the first buyer or one year after installation or 1000 running hours (accumulated), whichever comes first.

Service and parts are available from Baifa Power or distributors in your location.

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ENGINE SPECIFICATION

Manufacturer / Model	MTU 20V4000G74S
Air intake system	Turbocharged, water/air intercooling
Fuel system	Electronic Fuel Injection System
Cylinder arrangement	20 in V
Displacement	95.4L
Bore and stroke	170×210 mm
Compression ratio	16.4
Rated speed	1800rpm
Max. Standby power at rated speed	3010kW
Governor type	ADEC

Exhaust System

Exhaust gas flow	612 m^3/min
Exhaust temperature	460°C
Max back pressure	8.5kPa

Air Intake System

Max intake restriction	5kPa
Combustion air flow	246 m^3/min
Air flow required for radiator	4200 m^3/min

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Fuel System		
Fuel consumption @ 100% (Standby Power) Load	200g/kWh	689L/h
Fuel consumption @ 75% (Standby Power) Load	194g/kWh	507L/h
Fuel consumption @ 50% (Standby Power) Load	204g/kWh	366L/h

Oil System	
Total oil capacity	390L
Oil consumption	0.3% of Fuel Consumption
Oil sump capacity	268-340L

Cooling System	
Coolant capacity	547L
Max water temperature	102°C

MODEL: BF-M3000-60

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ALTERNATOR SPECIFICATION

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 Class	IP23
Altitude	≤1000m
Exciter Type	Brushless exciting
Insulation Class/Temperature Rise	H/H
Telephone Influence Factor (TIF)	＜50
THF	＜2%
Alternator Capacity	3125kVA
Alternator Efficiency	97.2%

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GENERATING SET DATA

Related range of voltage setting	≥±5%
Steady-state voltage deviation	≤±1%
Transient voltage deviation (100 % sudden power decrease)	≤+20%
Transient voltage deviation (sudden power increase)	≤-15%
Voltage recovery time (100 % sudden power decrease)	≤4S
Voltage recovery time (sudden power increase)	≤4S
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	≤0.5%
Transient frequency deviation (100 % sudden power decrease)	≤+10%
Transient frequency deviation (sudden power increase)	≤-7%
Frequency recovery time (100 % sudden power decrease)	≤3S
Frequency recovery time (sudden power increase)	≤3S

STANDARD FEATURES

Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	Fuel-Water separator
Special coolant		

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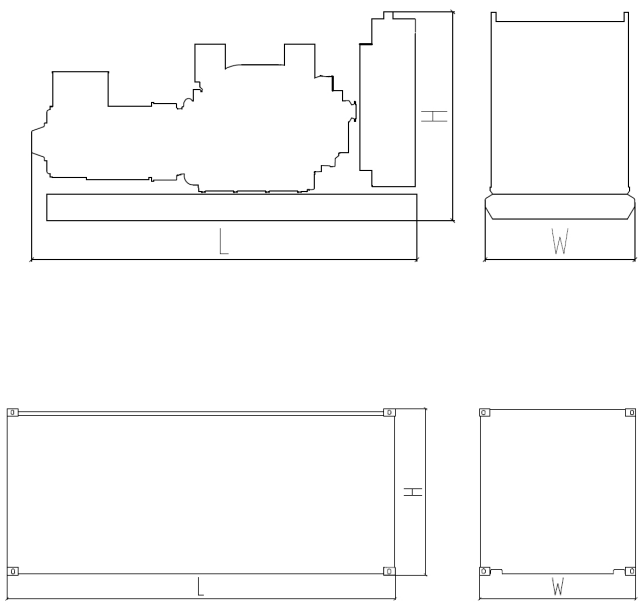
OPTIONS

Daily fuel tank	Rainproof type	Remote control panel
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

DIMENSIONS & WEIGHT



Standard Configuration (open type)
Overall Dimensions: 8000×3000×2850 mm
Weight: 20200kg

Soundproof Type (standard 40’ft HQ container)
Overall Dimensions: 12192×2438×2896 mm
Weight: 30200kg

Specifications are subject to change without notice.

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