

MODEL: BF-M2500

400V | 1500rpm | 50Hz



| | | | |
|-----------------------------|--------------------|---------------------------|------------------|
| ESP Standby Power | 2500 kVA | PRP Prime Power | 2275 kVA |
| ENGINE | MTU | ALTERNATOR | STAMFORD |
| | 16V4000G24F | | S7L1D-H41 |

GENERAL FEATURES

| | |
|--|--|
| Engine: MTU 16V4000G24F | Alternator: single bearing, IP23, insulation class H |
| 40°C 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 |
| Permanent Magnet Generator (PMG) | |

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| Voltage | Hz | Phase | PF (COSΦ) | Standby Amps | Standby Ratings (kW / kVA) | Prime Ratings (kW / kVA) |
|---------|----|-------|--------------|-----------------|-------------------------------|-----------------------------|
| 440/254 | 50 | 3 | 0.8 | 3280 | 2000/2500 | 1820/2275 |
| 415/240 | 50 | 3 | 0.8 | 3478 | 2000/2500 | 1820/2275 |
| 400/230 | 50 | 3 | 0.8 | 3609 | 2000/2500 | 1820/2275 |
| 380/220 | 50 | 3 | 0.8 | 3798 | 2000/2500 | 1820/2275 |

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (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: 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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| | |
|----------------------|-----------------|
| Manufacturer / Model | MTU/16V4000G24F |
|----------------------|-----------------|

| | |
|-------------------|---------------------------------------|
| Air intake system | Turbocharged, water/air inter cooling |
|-------------------|---------------------------------------|

| | |
|-------------|----------------------------------|
| Fuel system | Electronic Fuel Injection System |
|-------------|----------------------------------|

| | |
|----------------------|---------|
| Cylinder arrangement | 16 in V |
|----------------------|---------|

| | |
|--------------|-------|
| Displacement | 76.3L |
|--------------|-------|

| | |
|-----------------|------------|
| Bore and stroke | 170x210 mm |
|-----------------|------------|

| | |
|-------------------|--------|
| Compression ratio | 16.4:1 |
|-------------------|--------|

| | |
|-------------|----------|
| Rated speed | 1500 rpm |
|-------------|----------|

| | |
|-----------------------------------|----------------------|
| Max. Standby power at rated speed | 2162kW (without fan) |
|-----------------------------------|----------------------|

| | |
|---------------|------|
| Governor type | ADEC |
|---------------|------|

Exhaust System

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|------------------|--------------------------|
| Exhaust gas flow | 396 m ³ / min |
|------------------|--------------------------|

| | |
|---------------------|--------|
| Exhaust temperature | 490 °C |
|---------------------|--------|

| | |
|-------------------|---------|
| Max back pressure | 8.5 kPa |
|-------------------|---------|

Air Intake System

| | |
|------------------------|-------|
| Max intake restriction | 5 kPa |
|------------------------|-------|

| | |
|---------------------|-------------------------|
| Combustion air flow | 156 m ³ /min |
|---------------------|-------------------------|

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|--------------------------------|--------------------------|
| Air flow required for radiator | 2160 m ³ /min |
|--------------------------------|--------------------------|

Comprehensive Solutions For

POWER GENERATION



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Fuel System

| | | |
|--|-----------|---------|
| Fuel consumption @ 100% (Prime Power) Load | 189 g/kWh | 433 L/h |
| Fuel consumption @ 75% (Prime Power) Load | 191 g/kWh | 331 L/h |
| Fuel consumption @ 50% (Prime Power) Load | 201 g/kWh | 237 L/h |

Oil System

| | |
|--------------------|-----------------------|
| Total oil capacity | 300 L |
| Oil consumption | 0.3% Fuel Consumption |
| Oil sump capacity | 210~240L |

Cooling System

| | |
|-----------------------|-------|
| Coolant capacity | 500 L |
| Max water temperature | 104°C |



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ALTERNATOR SPECIFICATION

Industrial alternators meet the requirements of the relevant parts of the BS5000, VDE 0530, NEMA MG1-22, IEC34, CSA 22.2-100 and AS1359.

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, PMG exciting |
| Insulation Class/Temperature Rise | H/H |
| Telephone Influence Factor (TIF) | <50 |
| THF | <2% |
| Alternator Capacity | 2325 kVA |
| Alternator Efficiency | 96.2% |

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

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 |

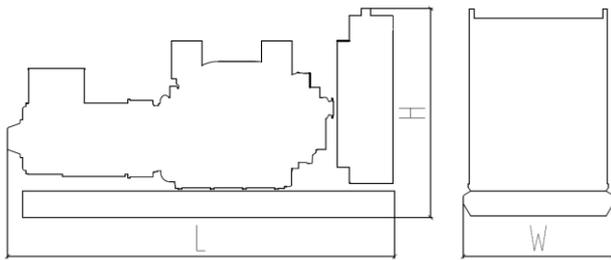
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OPTIONS

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

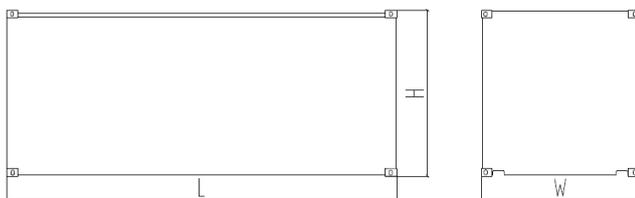
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 6900x2350x2600 mm

Weight: 16300 kg



Soundproof Type (standard 40'ft HQ container)

Overall Dimensions: 12192x2438x2896mm

Weight: 26300kg

Specifications are subject to change without notice.

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