

MODEL: BF-C2500Q-60

440V | 1800rpm | 60Hz



ESP Standby Power	2500kVA	PRP Prime Power	2280kVA
ENGINE	Cummins	ALTERNATOR	STAMFORD
	QSK60-G6		S7L1D-G41

GENERAL FEATURES

Engine: Cummins QSK60-G6

Alternator: single bearing, IP23, insulation class H

40°C radiator, fans are driven by belt, 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



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GENERATOR RATINGS

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	3007	2000kW/2500kVA	1824kW/2280kVA
460/266	60	3	0.8	3138	2000kW/2500kVA	1824kW/2280kVA
440/254	60	3	0.8	3280	2000kW/2500kVA	1824kW/2280kVA
416/240	60	3	0.8	3470	2000kW/2500kVA	1824kW/2280kVA

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	Cummins QSK60-G6
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Air intake system	Turbocharged, water/air cooling
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Fuel system	Cummins MCRS
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Cylinder arrangement	16 in V
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Displacement	60.2L
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Bore and stroke	159×190 mm
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Compression ratio	14.5
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Rated speed	1800rpm
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Max. Standby power at rated speed	2180kW
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Governor type	ECU
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Exhaust System

Exhaust gas flow	436 m ³ /min
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Exhaust temperature	485°C
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Max back pressure	6.8kPa
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Air Intake System

Max intake restriction	6.2kPa
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Combustion air flow	179 m ³ /min
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Air flow required for radiator	2040 m ³ /min
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Fuel System

Fuel consumption @ 100% (Prime Power) Load	202g/kWh	464L/h
Fuel consumption @ 75% (Prime Power) Load	219g/kWh	379L/h
Fuel consumption @ 50% (Prime Power) Load	245g/kWh	289L/h

Oil System

Total oil capacity	280L
Oil sump capacity	231-261L

Cooling System

Coolant capacity	490L
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 exciting
Insulation Class/Temperature Rise	H/H
Telephone Influence Factor (TIF)	<50
THF	<2%
Alternator Capacity	2500kVA
Alternator Efficiency	96.0%

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GENERATING SET DATA

Related range of voltage setting	$\geq \pm 5\%$
Steady-state voltage deviation	$\leq \pm 1\%$
Transient voltage deviation (100 % sudden power decrease)	$\leq +25\%$
Transient voltage deviation (sudden power increase)	$\leq -20\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
Voltage recovery time (sudden power increase)	$\leq 6S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 1.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
Transient frequency deviation (sudden power increase)	$\leq -10\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
Frequency recovery time (sudden power increase)	$\leq 5S$

STANDARD FEATURES

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

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OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

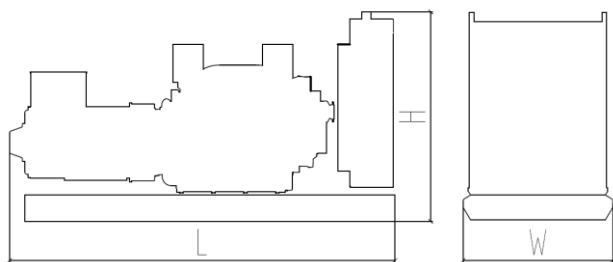
Spare parts

Trailer type

Switch box

Automatic transfer switch

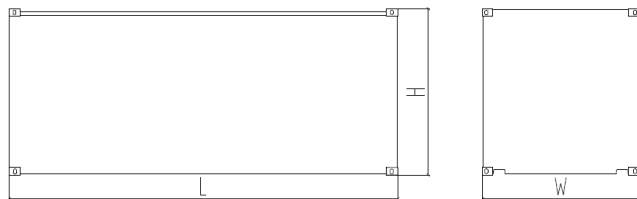
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 5750×2200×2800 mm

Weight: 15800 kg



Soundproof Type (standard 40'ft HQ container)

Overall Dimensions: 12192×2438×2896 mm

Weight: 25800 kg

Specifications are subject to change without notice.

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