

MODEL: BP C1000 (BF-C1000)

400V | 1500rpm | 50Hz



ESP Standby Power	1000 kVA	PRP Prime Power	910 kVA
ENGINE	CCEC Cummins KTA38-G2A	ALTERNATOR	STAMFORD S6L1D-D4

GENERAL FEATURES

Engine: CCEC Cummins KTA38-G2A

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 (COS Φ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	1312	800/1000	728/910
415/240	50	3	0.8	1391	800/1000	728/910
400/230	50	3	0.8	1443	800/1000	728/910
380/220	50	3	0.8	1519	800/1000	728/910

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

Berca 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 Berca sold to the first buyer or one year after installation or 1000 running hours (accumulated), whichever comes first.

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

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ENGINE SPECIFICATION

Manufacturer / Model CCEC Cummins KTA38-G2A

Air intake system Turbo, Air/Water cooling

Fuel system PT type fuel pump, EFC

Cylinder arrangement 12 in "V"

Displacement 37.8L

Bore and stroke 159*159 (mm)

Compression ratio 14.5:1

Rated speed 1500rpm

Max. Standby power at rated speed 895KW/1217HP

Governor type Electronic

Exhaust System

Exhaust gas flow 193.5 m³/min

Exhaust temperature 521 °C

Max back pressure 10kPa

Air Intake System

Max intake restriction 6.23kPa

Combustion air flow 64 m³/min

Air flow required for radiator 1140 m³/min

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	203 g/kWh	188 L/h
Fuel consumption @ 75% (Prime Power) Load	209 g/kWh	146 L/h
Fuel consumption @ 50% (Prime Power) Load	N/A	N/A

Oil System

Total oil capacity	135L
Oil consumption	≤4g/kwh
Oil sump capacity	121~151L

Cooling System

Coolant capacity	280L
Max water temperature	104℃

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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	940kVA
Alternator Efficiency	95.0%

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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

Special tools

MCCB

**BERCA POWER****GENERATOR SET | TECHNICAL SHEETS****MODEL: BP C1000 (BF-C1000)****400V | 1500rpm | 50Hz****OPTIONS**

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

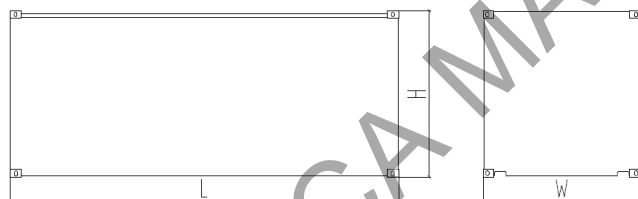
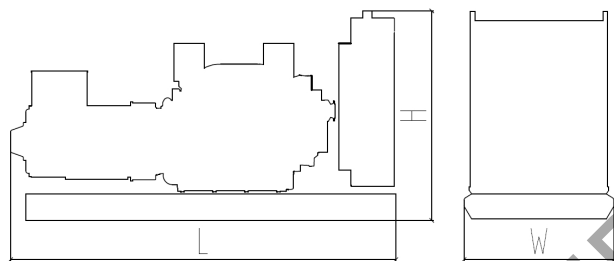
Paralleling system

Spare parts

Trailer type

Switch box

Automatic transfer switch

DIMENSIONS & WEIGHT**Standard Configuration (open type)**

Overall Dimensions: 4150×1800×2250 mm

Weight: 7150 kg

Standard Configuration (with base fuel tank)

Overall Dimensions: 4150×1800×2250 mm

Weight: 7350 kg

Soundproof Type

Overall Dimensions: 6058×2438×2591 mm

Weight: 12150 kg

Specifications are subject to change without notice.**PT. BERCA MANDIRI PERKASA**

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