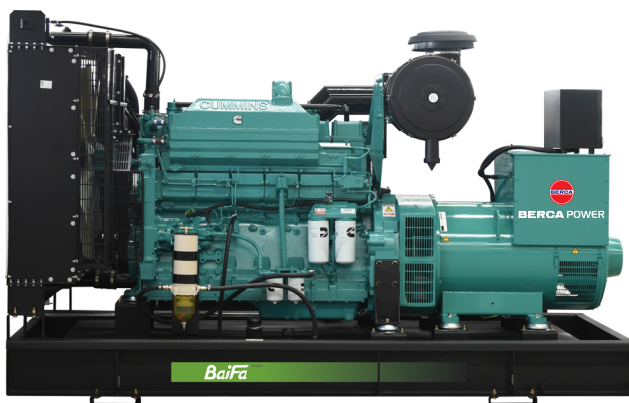


**MODEL: BP C500 (BF-C500)**

**400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>500 kVA</b>	<b>PRP</b> Prime Power	<b>450 kVA</b>
<b>ENGINE</b>	<b>CCEC Cummins</b> <b>KTA19-G3</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>S4L1D-G41</b>

## GENERAL FEATURES

Engine: CCEC Cummins KTA19-G3

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

**MODEL: BP C500 (BF-C500)**

**400V | 1500rpm | 50Hz**

## GENERATOR RATINGS

Voltage	Hz	Phase	PF ( $\cos\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	656	400/500	360/450
415/240	50	3	0.8	696	400/500	360/450
400/230	50	3	0.8	721	400/500	360/450
380/220	50	3	0.8	759	400/500	360/450

**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:

**12 months after testing & commissioning (unlimited running hours)**

Service and parts are available from **PT BERCA MANDIRI PERKASA** and its office networks.

**MODEL: BP C500 (BF-C500)**

**400V | 1500rpm | 50Hz**

## ENGINE SPECIFICATION

Manufacturer / Model CCEC Cummins KTA19-G3

Air intake system Turbo, Water/Air cooling

Fuel system PT type fuel pump, EFC

Cylinder arrangement 6 in line

Displacement 18.9L

Bore and stroke 159\*159 (mm)

Compression ratio 13.9:1

Rated speed 1500rpm

Max. Standby power at rated speed 448KW/609HP

Governor type Electronic

### Exhaust System

Exhaust gas flow 89.34 m<sup>3</sup>/min

Exhaust temperature 532 °C

Max back pressure 10kPa

### Air Intake System

Max intake restriction 6.23kPa

Combustion air flow 31.98 m<sup>3</sup>/min

Air flow required for radiator 900 m<sup>3</sup>/min

**MODEL: BP C500 (BF-C500)**

**400V | 1500rpm | 50Hz**

#### Fuel System

Fuel consumption @ 100% (Prime Power) Load	205 g/kWh	96.0 L/h
Fuel consumption @ 75% (Prime Power) Load	205 g/kWh	72.1 L/h
Fuel consumption @ 50% (Prime Power) Load	N/A	N/A

#### Oil System

Total oil capacity	50L
Oil consumption	≤4g/kwh
Oil sump capacity	32~38L

#### Cooling System

Coolant capacity	106L
Max water temperature	104℃

**MODEL: BP C500 (BF-C500)**

**400V | 1500rpm | 50Hz**

## 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	450kVA
Alternator Efficiency	93.3%

**MODEL: BP C500 (BF-C500)**

**400V | 1500rpm | 50Hz**

## 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

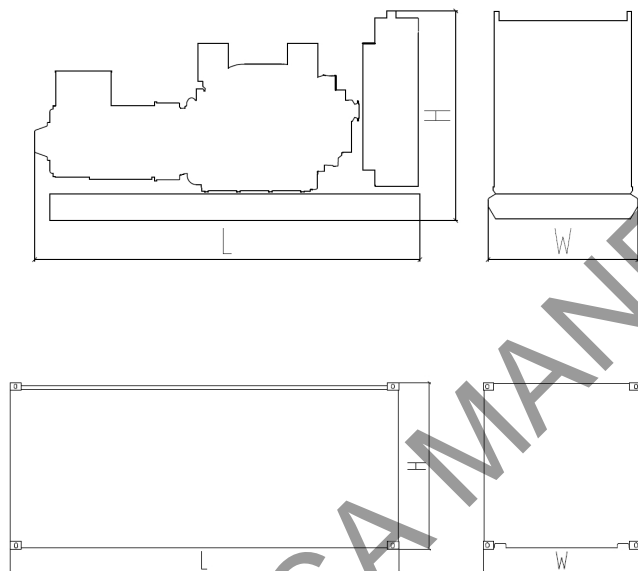
**MODEL: BP C500 (BF-C500)**

**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: 3450×1400×2100 mm

Weight: 4000 kg

### Standard Configuration (with base fuel tank)

Overall Dimensions: 3450×1400×2100 mm

Weight: 4200 kg

### Soundproof Type

Overall Dimensions: 4630×1660×2250 mm

Weight: 5600 kg

Specifications are subject to change without notice.



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**PT. ALTRAK 1078**

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