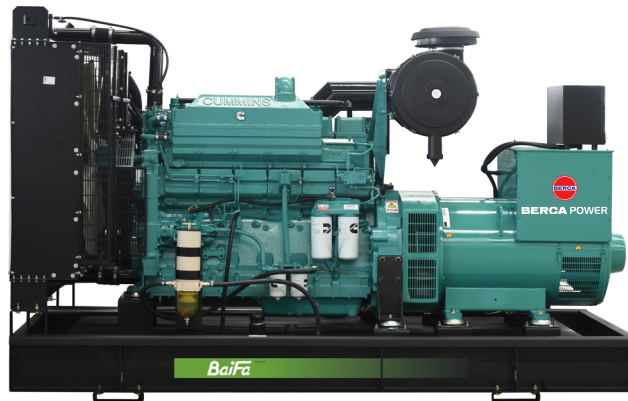


**MODEL: BP C500Q (BF-C500Q)**

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



<b>ESP</b> Standby Power	<b>500 kVA</b>	<b>PRP</b> Prime Power	<b>450 kVA</b>
<b>ENGINE</b>	CCEC Cummins	<b>ALTERNATOR</b>	STAMFORD
	QSNT-G4X		S4L1D-G41

### GENERAL FEATURES

Engine: CCEC Cummins QSNT-G4X	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 C500Q (BF-C500Q)**

**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 C500Q (BF-C500Q)**

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

## ENGINE SPECIFICATION

Manufacturer / Model CCEC Cummins QSNT-G4X

Air intake system Turbo, Air-Air cooling

Fuel system CELECT

Cylinder arrangement 6 in line

Displacement 14L

Bore and stroke 140\*152 (mm)

Compression ratio 14:1

Rated speed 1500rpm

Max. Standby power at rated speed 448kW/600hp

Governor type Electronic

### Exhaust System

Exhaust gas flow 2319kg/h

Exhaust temperature 517°C

Max back pressure 10kpa

### Air Intake System

Max intake restriction 6.2kPa

Combustion air flow 31.4m<sup>3</sup>/min

Air flow required for radiator 680m<sup>3</sup>/min

**MODEL: BP C500Q (BF-C500Q)**

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

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	204g/kWh	96.0 L/h
Fuel consumption @ 75% (Prime Power) Load	200g/kWh	70.9 L/h
Fuel consumption @ 50% (Prime Power) Load	202g/kWh	48.8 L/h

**Oil System**

Total oil capacity	38.6L
Oil consumption	≤4g/kWh
Oil sump capacity	28.4~36L

**Cooling System**

Coolant capacity	85L
Max water temperature	104°C

**MODEL: BP C500Q (BF-C500Q)**

**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 C500Q (BF-C500Q)**

**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)	$\leq +20\%$
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	Special tools
MCCB		

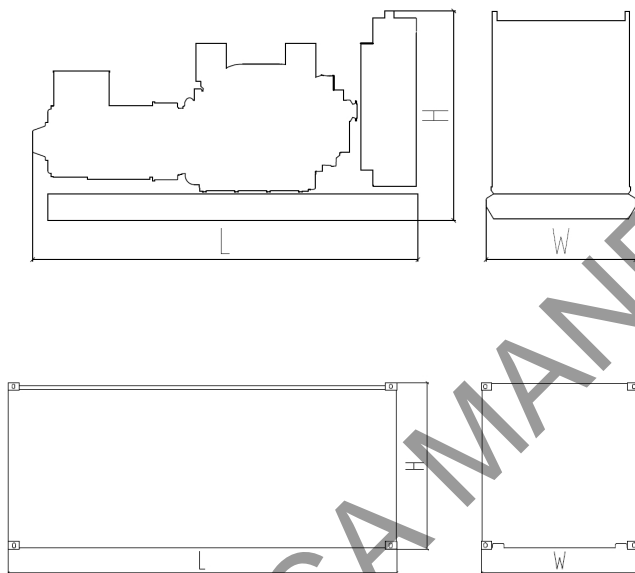
**MODEL: BP C500Q (BF-C500Q)**

**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**



<b>Standard Configuration (open type)</b>
Overall Dimensions: 3090×1400×1900 mm
Weight: 3300 kg
<b>Standard Configuration (with base fuel tank)</b>
Overall Dimensions: 3090×1400×1900 mm
Weight: 3450 kg
<b>Soundproof Type</b>
Overall Dimensions: 4630×1660×2250 mm
Weight: 4700 kg

Specifications are subject to change without notice.



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**PT. ALTRAK 1078**

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