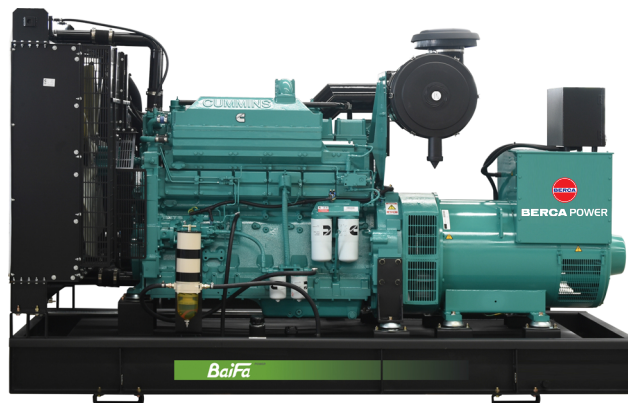


**MODEL: BP C500DQ (BF-C500DQ)**

**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>DCEC Cummins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>QSZ13-G3</b>		<b>S4L1D-G41</b>

### GENERAL FEATURES

Engine: DCEC Cummins QSZ13-G3	Alternator: single bearing, IP23, insulation class H
50°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 C500DQ (BF-C500DQ)**

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## 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	722	400/500	360/450
380/220	50	3	0.8	760	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 C500DQ (BF-C500DQ)**

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

## ENGINE SPECIFICATION

Manufacturer / Model DCEC Cummins QSZ13-G3

Air intake system Turbo, Air/Air cooling

Fuel system Direct injection

Cylinder arrangement 6 in line

Displacement 13L

Bore and stroke 130\*163 (mm)

Compression ratio 17.0:1

Rated speed 1500rpm

Max. Standby power at rated speed 470KW/629HP

Governor type HPCR

### Exhaust System

Exhaust gas flow 2238kg/h

Exhaust temperature 547 °C

Max back pressure 13kpa

### Air Intake System

Max intake restriction 6.2kPa

Combustion air flow 30.3 m<sup>3</sup>/min

Air flow required for radiator 588 m<sup>3</sup>/min

**MODEL: BP C500DQ (BF-C500DQ)**

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**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	193 g/kWh	90.8 L/h
Fuel consumption @ 75% (Prime Power) Load	189 g/kWh	67.0 L/h
Fuel consumption @ 50% (Prime Power) Load	187 g/kWh	45.2 L/h

**Oil System**

Total oil capacity	45.42L
Oil consumption	≤4g/kwh
Oil sump capacity	45.42L

**Cooling System**

Coolant capacity	64L
Max water temperature	102°C

BERCA MANDIRI PERKASA

**MODEL: BP C500DQ (BF-C500DQ)**

**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 C500DQ (BF-C500DQ)**

**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		

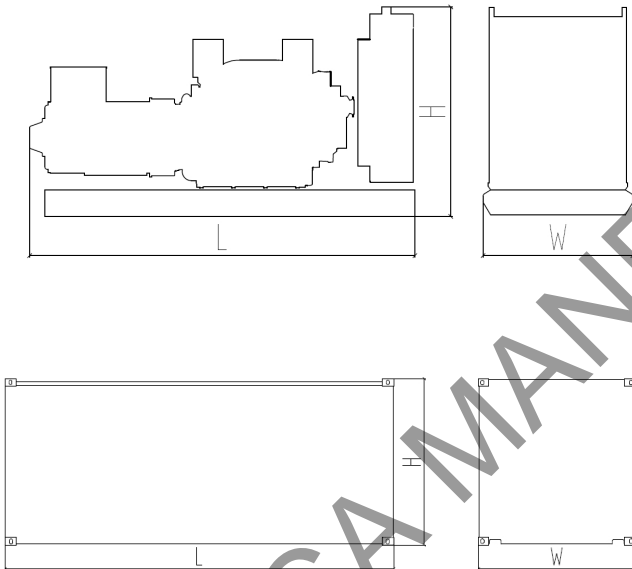
**MODEL: BP C500DQ (BF-C500DQ)**

**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: 3200×1400×2100 mm

Weight: 3030 kg

**Standard Configuration (with base fuel tank)**

Overall Dimensions: 3200×1400×2100 mm

Weight: 3210 kg

**Soundproof Type**

Overall Dimensions: 4630×1660×2250 mm

Weight: 4450 kg

Specifications are subject to change without notice.



**PT. BERCA MANDIRI PERKASA**

Jln. Pangeran Jayakarta 149A, Jakarta 10730 - INDONESIA  
Phone. +62 21 6006125, 6399190, 6280900,  
Fax. +62 21 6399191  
Email. bmp@berca-mp.co.id  
www.berca-mp.co.id

**Parts and Service :**

Jl. Agung Utara I Blok A2 Kav. 16/31  
Sunter Agung Podomoro, Jakarta 14530  
Phone. +62 21 6459448-49, 64711877  
Fax. +62 21 6471527

Subsidiary of :



**PT. ALTRAK 1078**

**BRANCH NETWORKS :**

JAKARTA (021) 64711877 ADARO (0526) 2701578 ASEM REGES (021) 34834511 BALIKPAPAN (0542) 761978 BANDUNG (022) 42827424 BANJARMASIN (0511) 3251979 BATAM (0778) 471978 BATU KAJANG (0543) 5230488 BENETE (0373) 635260 BENGKULU +62 81225430084 BERNGALON +62 81225430084 BERAU (0554) 2020118 BITUNG (0438) 35078 BONTANG 08125417977 CIKARANG (021) 8067306 CILEGON (0254) 390678 DENPASAR (0361) 234029 JAMBI (0828) 7401978 KETAPANG (0534) 24476 KENDARI (0401) 3082554 KETAPANG (0534) 24476 KUPANG (0380) 8441038 LAMPUNG (0721) 789976 MAKASSAR (0411) 518414 MANADO (0431) 811759 MEDAN (061) 8449978 MELAK (0813) 47371283 MOROWALI +62 7514485624 PADANG (0751) 4485624 PALEMBANG (0711) 364453 PANGKALPINANG (0717) 439578 PALU 08114564788 PEKANBARU (0761) 567678 PONTIANAK (0561) 748778 SAMARINDA (0541) 261978 SAMPIT (0531) 34008 SANGATTA (0549) 23360 SATUI (0512) 61575 SEMARANG (024) 3581371 SORONG (0824) 4428284 SURABAYA (031) 847595753 TARAKAN (0551) 3829585