

MODEL: BP C90 (BF-C90)

400V | 1500rpm | 50Hz



ESP Standby Power	90 kVA	PRP Prime Power	80 kVA
ENGINE	DCEC Cummins 4BTA3.9-G11	ALTERNATOR	STAMFORD UCI224G1

GENERAL FEATURES

Engine: DCEC Cummins 4BTA3.9-G11	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

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GENERATOR RATINGS

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	118	72/90	64/80
415/240	50	3	0.8	125	72/90	64/80
400/230	50	3	0.8	130	72/90	64/80
380/220	50	3	0.8	137	72/90	64/80

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.

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ENGINE SPECIFICATION

Manufacturer / Model DCEC Cummins 4BTA3.9-G11

Air intake system Turbo, Water/Air DC

Fuel system PB type fuel pump

Cylinder arrangement 4 in line

Displacement 3.9L

Bore and stroke 102*120 (mm)

Compression ratio 17.3:1

Rated speed 1500rpm

Max. Standby power at rated speed 80KW/107HP

Governor type Electronic

Exhaust System

Exhaust gas flow 8.04 m³/min

Exhaust temperature 548 °C

Max back pressure 10kPa

Air Intake System

Max intake restriction 6.2kPa

Combustion air flow 4.2 m³/min

Air flow required for radiator 158 m³/min

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	208 g/kWh	17.9 L/h
Fuel consumption @ 75% (Prime Power) Load	208 g/kWh	13.4 L/h
Fuel consumption @ 50% (Prime Power) Load	214 g/kWh	9.3 L/h

Oil System

Total oil capacity	11L
Oil consumption	≤4g/kwh
Oil sump capacity	10.9L

Cooling System

Coolant capacity	22L
Max water temperature	104°C

BERCA MANDIRI PERKASA

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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	85kVA
Alternator Efficiency	90.2%

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GENERATING SET DATA

Related range of voltage setting	≥±5%
Steady-state voltage deviation	≤±1%
Transient voltage deviation (100 % sudden power decrease)	≤+25%
Transient voltage deviation (sudden power increase)	≤-20%
Voltage recovery time (100 % sudden power decrease)	≤6S
Voltage recovery time (sudden power increase)	≤6S
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	≤1.5%
Transient frequency deviation (100 % sudden power decrease)	≤+12%
Transient frequency deviation (sudden power increase)	≤-10%
Frequency recovery time (100 % sudden power decrease)	≤5S
Frequency recovery time (sudden power increase)	≤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
Base fuel tank	MCCB	

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OPTIONS

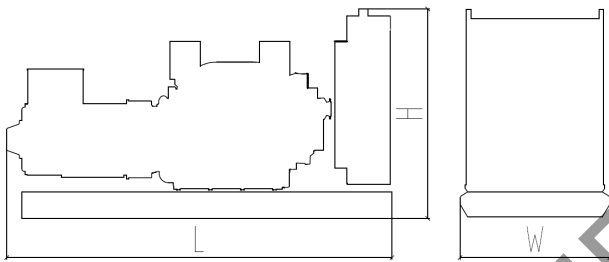
Daily fuel tank	Rainproof type	Remote control panel
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

DIMENSIONS & WEIGHT

Standard Configuration (open type with base fuel tank)

Overall Dimensions: 1920×770×1370 mm

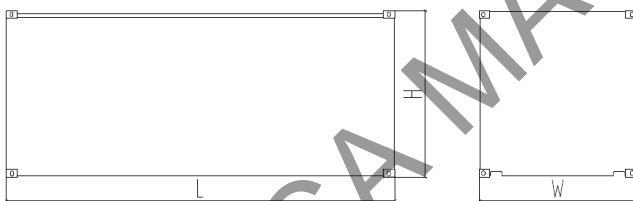
Weight: 1030 kg



Soundproof Type

Overall Dimensions: 2440×1060×1680 mm

Weight: 1500 kg



Specifications are subject to change without notice.



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