

**MODEL: BP C175 (BF-C175)**

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



<b>ESP</b> Standby Power	<b>175 kVA</b>	<b>PRP</b> Prime Power	<b>160 kVA</b>
<b>ENGINE</b>	<b>DCEC Cummins</b> <b>6CTA8.3-G1</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>UCI274F1</b>

## GENERAL FEATURES

Engine: DCEC Cummins 6CTA8.3-G1

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 ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	230	140/175	128/160
415/240	50	3	0.8	243	140/175	128/160
400/230	50	3	0.8	253	140/175	128/160
380/220	50	3	0.8	266	140/175	128/160

**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 6CTA8.3-G1

Air intake system Turbo, Water/Air Cooling

Fuel system PB type fuel pump

Cylinder arrangement 6 in line

Displacement 8.3L

Bore and stroke 114\*135 (mm)

Compression ratio 17.3:1

Rated speed 1500rpm

Max. Standby power at rated speed 180KW/241HP

Governor type Mechanical

## Exhaust System

Exhaust gas flow 34.7 m<sup>3</sup>/min

Exhaust temperature 570 °C

Max back pressure 10kPa

## Air Intake System

Max intake restriction 6kPa

Combustion air flow 12.4 m<sup>3</sup>/min

Air flow required for radiator 238 m<sup>3</sup>/min

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#### Fuel System

Fuel consumption @ 100% (Prime Power) Load	215 g/kWh	36.5 L/h
Fuel consumption @ 75% (Prime Power) Load	211 g/kWh	27.1 L/h
Fuel consumption @ 50% (Prime Power) Load	216 g/kWh	18.9 L/h

#### Oil System

Total oil capacity	27.6L
Oil consumption	≤4g/kwh
Oil sump capacity	15.1~18.9L

#### Cooling System

Coolant capacity	34L
Max water temperature	104°C

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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	160kVA
Alternator Efficiency	92.3%

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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

Base fuel tank

MCCB

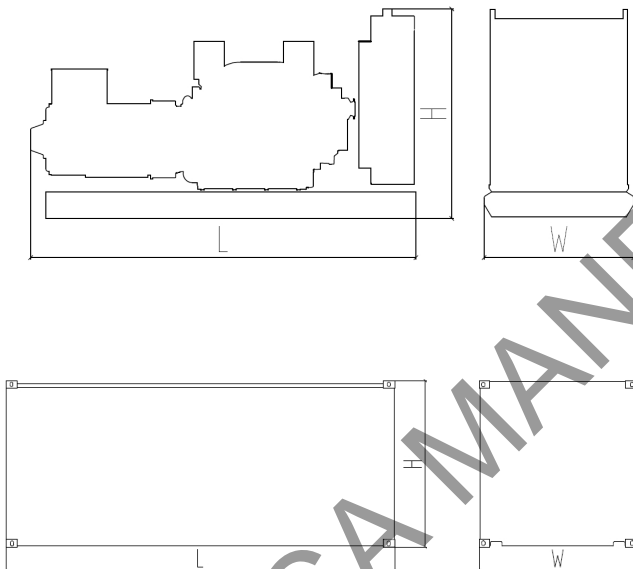
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## OPTIONS

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: 2450×950×1850 mm

Weight: 1700 kg

**Soundproof Type**

Overall Dimensions: 3230×1170×1800 mm

Weight: 2350 kg

*Specifications are subject to change without notice.*



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**PT. ALTRAK 1078**

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