

440V / 1800RPM / 60HZ

FOR INDUSTRIAL PURPOSES

306KW



ESP  
Standby Power

306kVA

PRP  
Prime Power

280kVA

ENGINE

DCEC Cummins  
6LTAA8.9-G3

ALTERNATOR

STAMFORD  
UCDI274J1

**GENERAL FEATURES**

Engine: DCEC Cummins 6LTAA8.9-G3  
50°C radiator, fans are driven by belt, with safety guard  
Vibration damper  
24V charging alternator  
Lead-acid batteries, rack and cables

Alternator: single bearing, IP23, insulation class H  
Dry type air filter, fuel filter & oil filter  
Standard control panel  
Exhaust bellows, elbows, flange & muffler  
User manual

**GENERATOR RATINGS**

VOLTAGE	Hz	Phase	PF (COS)	Standby Amps	Standby Ratings (8kW/kVA)	Prime Ratings (8kW/kVA)
480/277	60	3	0.8	368	245kW/306kVA	224kW/280kVA
460/266	60	3	0.8	384	245kW/306kVA	224kW/280kVA
440/254	60	3	0.8	402	245kW/306kVA	224kW/280kVA
416/240	60	3	0.8	425	245kW/306kVA	224kW/280kVA



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**Energybak**

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Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (equiv 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

Baifa 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: 15 months from the date BAIFA sold to the first buyer or one year after installation or 1000 running hours (accumulated), whichever comes first. Service and parts are available from Baifa Power or distributors in your location.

### ENGINE SPECIFICATION

Manufacturer / Model	DCEC Cummins 6LTA8.9-G3
Air intake system	Turbocharged, Air/Air Cooling
Fuel system	P7100 type fuel pump
Cylinder arrangement	6 in line
Displacement	8.9L
Bore and stroke	114×145 mm
Compression ratio	16.6
Rated speed	1800rpm
Max. Standby power at rated speed	282kW
Governor type	Electronic

### EXHAUST SYSTEM

Exhaust gas flow	50.3 m <sup>3</sup> /min
Exhaust temperature	520°C
Max back pressure	10kPa

### AIR INTAKE SYSTEM

Max intake restriction	6.2kPa
Combustion air flow	18.9 m <sup>3</sup> /min
Air flow required for radiator	372 m <sup>3</sup> /min

### FUEL SYSTEM

Fuel Consumption @ 100% (Prime Power) Load	201g/kWh	59.4L/h
Fuel Consumption @ 75% (Prime Power) Load	197g/kWh	44.1L/h
Fuel Consumption @ 50% (Prime Power) Load	202g/kWh	31.0L/h



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**OIL SYSTEM**

Total oil capacity	27.6L
Oil sump capacity	24L

**COOLING SYSTEM**

Coolant capacity	38L
Max water temperature	104°C

**ALTERNATOR SPECIFICATION**

Industrial alternators meet the requirements of the relevant parts of the BS 5000, 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	281kVA
Alternator Efficiency	92.8%

**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


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## STANDARD FEATURES

Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB
Base fuel tank		

## 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 &amp; WEIGHT

## Standard Configuration (open type)

Overall Dimensions:	2610x1000x1850 mm
Weight:	2060kg

## Soundproof Type

Overall Dimensions:	3590x1150x12050 mm
Weight:	2940 kg

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