



ESP
Standby Power

250kVA

PRP
Prime Power

230kVA

ENGINE

DCEC Cummins
6CTAA8.3-G2

ALTERNATOR

STAMFORD
UCI274H1

GENERAL FEATURES

Engine: DCEC Cummins 6CTAA8.3-G2
50°C radiator, fans are driven by belt, with safety guard

Alternator: single bearing, IP23, insulation class H

Dry type air filter, fuel filter & oil filter

Vibration damper
24V charging alternator

Standard control panel

Exhaust bellows, elbows, flange & muffler

Lead-acid batteries, rack and cables

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	301	200kW/250kVA	184kW/230kVA
460/266	60	3	0.8	314	200kW/250kVA	184kW/230kVA
440/254	60	3	0.8	328	200kW/250kVA	184kW/230kVA
416/240	60	3	0.8	347	200kW/250kVA	184kW/230kVA



440V / 1800RPM / 60HZ

FOR INDUSTRIAL PURPOSES

250KW

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. 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 6CTAA8.3-G2
Air intake system	Turbocharged, Air/Air Cooling
Fuel system	P7100 type fuel pump
Cylinder arrangement	6 in line
Displacement	8.3L
Bore and stroke	144×135 mm
Compression ratio	18
Rated speed	1800rpm
Max. Standby power at rated speed	210kW
Governor type	Electronic

EXHAUST SYSTEM

Exhaust gas flow	45.3 m ³ /min
Exhaust temperature	585°C
Max back pressure	10kPa

AIR INTAKE SYSTEM

Max intake restriction	6.35kPa
Combustion air flow	15.7 m ³ /min
Air flow required for radiator	348 m ³ /min

FUEL SYSTEM

Fuel Consumption @ 100% (Prime Power) Load	214g/kWh	52.2L/h
Fuel Consumption @ 75% (Prime Power) Load	212g/kWh	39.2L/h
Fuel Consumption @ 50% (Prime Power) Load	218g/kWh	27.7L/h



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440V / 1800RPM / 60HZ

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OIL SYSTEM

Total oil capacity	24L
Oil sump capacity	15.1-18.9L

COOLING SYSTEM

Coolant capacity	34L
Max water temperature	104°C

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	245kVA
Alternator Efficiency	93.2%

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 & WEIGHT

Standard Configuration (open type)

Overall Dimensions:	2460x960x1850 mm
Weight:	1800kg

Soundproof Type

Overall Dimensions:	3230x1170x1800 mm
Weight:	2450 kg

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