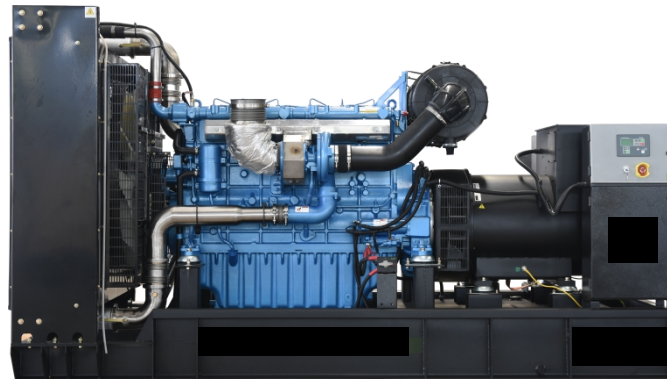


MODEL: HC-BD490-60

440V | 1800rpm | 60Hz



ESP Standby Power	490kVA	PRP Prime Power	440kVA
ENGINE	Baudouin	ALTERNATOR	STAMFORD
	6M21G390/6		S4L1D-F41

GENERAL FEATURES

Engine: Baudouin 6M21G390/6

Alternator: single bearing, IP23, insulation class H

40°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)
480/277	60	3	0.8	589	392kW/490kVA	352kW/440kVA
460/266	60	3	0.8	615	392kW/490kVA	352kW/440kVA
440/254	60	3	0.8	643	392kW/490kVA	352kW/440kVA
416/240	60	3	0.8	680	392kW/490kVA	352kW/440kVA

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

HiChai 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: One year after installation or 1000 running hours (accumulated), whichever comes first.

Service and parts are available from HiChai Power or distributors in your location.

MODEL: HC-BD490-60**440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 6M21G390/6
Air intake system	Turbocharged and Aftercooled
Fuel system	Mechanical Pump
Cylinder arrangement	6 in line
Displacement	12.54L
Bore and stroke	127 × 165 mm
Compression ratio	16
Rated speed	1800rpm
Max. Standby power at rated speed	448kW
Governor type	Electronic

Exhaust System

Exhaust gas flow	96 m ³ /min
Exhaust temperature	580°C
Max back pressure	12kPa

Air Intake System

Max intake restriction	7kPa
Combustion air flow	31 m ³ /min
Air flow required for radiator	585 m ³ /min

Comprehensive Solutions For

POWER GENERATION

MODEL: HC-BD490-60

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	202.4g/kWh	96.1L/h
Fuel consumption @ 75% (Prime Power) Load	196.7g/kWh	71.7L/h
Fuel consumption @ 50% (Prime Power) Load	200.7g/kWh	51.1L/h

Oil System

Total oil capacity	32L
Oil sump capacity	27-30L
Oil fuel consumption ratio based on engine fuel consumption data	≤ 0.2%

Cooling System

Coolant capacity	45L
Max water temperature	105°C

MODEL: HC-BD490-60**440V | 1800rpm | 60Hz**

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	500kVA
Alternator Efficiency	93.2%

MODEL: HC-BD490-60

440V | 1800rpm | 60Hz

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	MCCB

MODEL: HC-BD490-60

440V | 1800rpm | 60Hz

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: 2950×1110×1730 mm

Weight: 3080 kg



Soundproof Type

Overall Dimensions: 4230×1460×2150 mm

Weight: 4430 kg

Specifications are subject to change without notice.