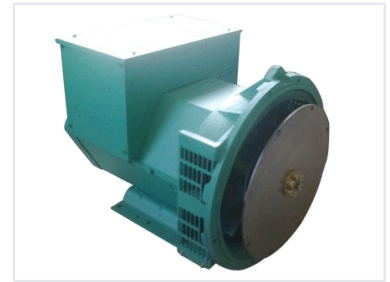


# AC Electrical Power Alternator

This AC electrical power alternator converts mechanical energy into electrical energy in the form of alternating current. It features a robust housing with ventilation grills for cooling and a terminal box for electrical connections, making it suitable for power generation applications in various industries.



## ADDITIONAL IMAGES



## Overview

### High-Performance Brushless Alternators

The HL Series features advanced brushless synchronous generators designed for reliable power generation across industrial and commercial applications. These units utilize a salient pole rotor construction with full-damping and AVR automatic control to ensure stable voltage output even under distorting loads. With a power range spanning 5kW to 1440kW, these alternators offer excellent compatibility with global drive systems and are built to withstand harsh environments.

## Key Performance Metrics

### Performance Highlights

**1 %**

Voltage Regulation

**150 %**

Max Over-speed

**3 %**

Voltage THD

**1.5 s**

Recovery Time

## Technical Specifications

### Insulation Class

Class H

### Protection Rating

IP23

### Power Output Range

5kW to 1440kW

### Winding Pitch

2/3 standard

### Excitation Method

Brushless self-exciting with AVR

## Construction & Design

### Design Features

- Steel shell body construction
- Whole disc stator core
- Salient pole rotor with full-damping
- VPI and wet-winding protection technology
- Balanced rotor with dual sealed ball bearings

### Available Frame Sizes

164, 184, 224, 274, 314, 354, 404

## Operational Environment

### Standard Operating Conditions

Parameter	Requirement
Maximum Altitude	1000m
Temperature Range	-15°C to 40°C
Relative Humidity	d 90%

## Control & Compatibility

### AVR Models

- EA460 (Standard)
- EA440 (Parallel operation)
- EA230
- EA08
- EA448 (Auxiliary windings)

### Compliance Standards

ISO9001, IEC, GB755

## Optional Features

### Available Options

- Interchangeable S.A.E. flanges and drive discs
- Air inlet and outlet filters
- Space heaters
- Stator thermal protection
- PMG or auxiliary windings
- Droop current transformers (C.T.)