

AC Synchronous Alternator

This AC synchronous alternator is designed for power generation. It is suitable for various industrial and commercial applications.



ADDITIONAL IMAGES



Product Overview

STC Series Three-Phase AC Synchronous Alternator

The STC series alternators are designed as versatile power generating units for small-capacity applications, ideal for lighting on ships and powering household electrical devices in residential areas. These units feature a drip-proof, salient pole rotating field design with self-excitation and constant voltage control for reliable performance. Built with high-quality electromagnetic materials and adhering to IEC standards, they offer a consolidated construction that is easy to maintain and suitable for global markets.

Electrical Specifications

Key Electrical Metrics

230 V Standard Voltage	50 Hz Frequency	3 PH Phase
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Voltage Options

- 230V / 115V (Standard)
- 240V / 120V (Optional)

Frequency Options

- 50Hz
- 60Hz

Technical Construction

Insulation Class

Component	Class
Stator	Class E (or B)
Rotor	Class B

Excitation System	Harmonic wave self-excitation or automatic voltage control (AVR)
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Enclosure Protection	Drip-proof
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Operation & Performance

Coupling Methods

- Direct coupling with prime mover
- V-belt connection

Operation Mode	Continuous duty
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Voltage Regulation Performance	Satisfactory constant-voltage performance under 0-100% load variation with 5% speed change
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Compliance & Standards

Regional Suitability

Europe • America • Australia

Standards	IEC Standard, CE, ISO Verified, GS
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