

# Three-Phase AC Synchronous Alternator

This three-phase AC synchronous alternator is designed for use as an electric power source in various settings. It can also be utilized as a reserved power source for emergent situations.



## Overview

### Reliable Power Generation for Diverse Environments

The STC Series Three-Phase AC Synchronous Alternators are engineered for versatile use in towns, worksites, and remote pasture lands. These drip-proof units feature a harmonic excitation system for easy operation and simple maintenance, making them ideal as primary lighting sources or emergency backup power. Designed for stability, they return quickly to normal working states after sudden load changes and can directly start unloaded squirrel cage induction motors.

## Electrical Specifications

### Rated Voltage

**400 V**

Line Voltage

**230 V**

Phase Voltage

### Frequency

50 Hz

### Power Factor

0.8

### Wiring System

Three-phase four-wire type with star connection and neutral point

## Performance & Operation

### Protection Type

Drip-proof

### Excitation System

Harmonic excitation

### Rated Speed

1500 r.p.m

### Coupling Options

Direct Coupling, V-Belt

## Model Range

### Output Performance by Model

Model	kW	kVA	Current (A)
STC-3	3	3.8	5.4
STC-5	5	6.3	9
STC-10	10	12.5	18.1
STC-20	20	25	36.1
STC-50	50	62.5	90.2

## Applications

### Recommended Applications

- Town and countryside lighting
- Construction worksites
- Mountain and pasture land power
- Emergency reserved power source
- Direct starting of squirrel cage induction motors