

Three-Phase Compound Excitation Synchronous Alternator

This three-phase synchronous alternator utilizes compound excitation to ensure stable voltage regulation under varying load conditions. Its durable construction and integrated control panel provide reliable and easy operation for diverse power generation needs.



ADDITIONAL IMAGES



Product Overview

TFW Series Synchronous Alternator

The TFW series is a self-exciting constant voltage compound alternator engineered for superior dynamic performance and reliability. Featuring an integral salient-pole rotor and advanced cooling structure, this unit is designed to handle demanding industrial loads, including electric motors. Its robust, water-resistant, and salt-spray-protected construction ensures stable operation even in challenging environments like moist tropics and marine applications.

Technical Specifications

Rated Current

160 A

Rated Current Threshold

Insulation Class

Class B • Class F

Maximum Power Output

200 KW

Rated Voltage

400 V

Frequency

50/60Hz

Operating Conditions

Environmental Compliance

Parameter	Limit
Max Altitude	1000m
Ambient Temperature	-15°C to 40°C
Relative Humidity	d 90%

Construction

Bearing Configuration

- Single bearing
- Double bearing

Housing Materials

Cast iron, Steel plate