

# Water-Cooled Alternator for Power Generation

This water-cooled alternator is engineered for reliable power generation in demanding environments. It features a robust frame core and is rated for 400V at 50Hz.



## Overview

### High-Efficiency Water-Cooled Alternator

This industrial-grade, water-cooled alternator is engineered for reliable power generation in the most demanding environments. It features a advanced brushless construction and a 2/3 winding pitch to ensure high efficiency and excellent performance even under non-linear loads. Equipped with a VPI global varnished system, this unit provides long-term durability and stable output for critical power systems.

## Technical Specifications

### Performance Metrics

**27.5 kVA**

Base Rating

**22 kW**

Base Rating

**39.7 A**

Rated Current

### Electrical Characteristics

Parameter	Value
Voltage	400V
Frequency	50Hz
Stator Connection	Series Star
Excitation Current	2.5A
Station Voltage	55V

## Environmental & Mechanical

### Environment & Enclosure

- Enclosure Rating: IP21
- Insulation Class: H
- Thermal Classification: 180(H)
- Max Ambient Temperature: 40°C
- Temperature Rise: 125°C
- Cooling Method: IC01
- Mounting Type: IM3011

## Features

### Key Capabilities

Water Cooling, Brushless Construction, Low Reactance, 2/3 Winding Pitch, VPI Global Varnished, Non-linear Load Support