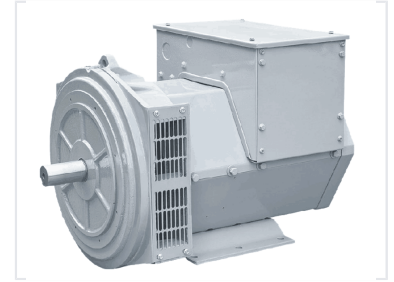


# Brushless Synchronous Alternator

This brushless alternator is designed for reliable power generation. It features a robust construction and brushless excitation system, ensuring stable performance and long service life.



## ADDITIONAL IMAGES

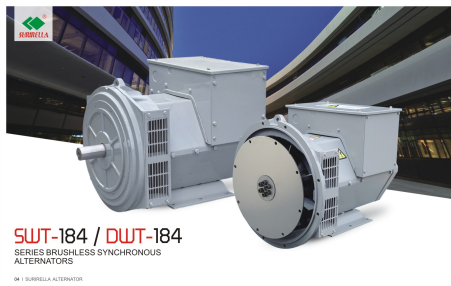


## Overview

### High-Performance Brushless Alternator

This brushless synchronous alternator is engineered for reliable power generation across various industrial applications. It features a robust construction with Class H insulation and a maintenance-free brushless excitation system that eliminates the need for brushes and slip rings. Designed for both prime and standby power, it delivers stable output with low harmonic distortion and efficient cooling for a long service life.

## Technical Performance



### SWT-184 / DWT-184

SERIES BRUSHLESS SYNCHRONOUS ALTERNATORS

	Temperature Class (SWT-184)						Temperature Class (DWT-184)						
	500V 1500rpm		600V 1800rpm		Frequency		500V 1500rpm		600V 1800rpm		Frequency		
Series Flax Connection	300	400	495	510	495	490	Series Diameter	230	230	240	220	230	240
Series Flax Connection	100	200	200	200	200	200	Rated Connection	110	110	120	110	110	120
Series Data Connection	220	230	240	240	240	240	N/A	N/A	N/A	N/A	N/A	N/A	
SWT-184E	KVA	22.0	22.0	22.0	27.0	27.0	KVA	18.0	18.0	18.0	18.4	18.4	
	MVA	18.0	18.0	18.0	22.0	22.0	MVA	15.0	15.0	15.0	15.4	15.4	
	SW	83.7	83.2	83.8	83.4	83.1	SW	81.3	81.9	81.9	79.9	80.6	
	KVA	17.0	17.0	17.0	18.4	18.4	KVA	14.0	14.0	14.0	14.0	14.0	
	MVA	14.0	14.0	14.0	15.0	15.0	MVA	11.5	11.5	11.5	11.5	11.5	
	SW	22.0	22.0	22.0	27.0	27.0	SW	18.5	18.5	18.5	21.0	21.0	
DWT-184F	KVA	15.0	15.0	15.0	15.0	15.0	SW	20.2	20.2	20.2	20.0	20.0	
	MVA	12.0	12.0	12.0	12.0	12.0	KVA	12.0	12.0	12.0	12.0	12.0	
	SW	25.0	25.0	25.0	30.0	30.0	DWT-184E	MVA	21.0	21.0	21.0	21.0	21.0
	SW	18.0	18.0	18.0	18.0	18.0	SW	20.0	20.0	20.0	20.0	20.0	
	KVA	17.0	17.0	17.0	18.0	18.0	KVA	20.0	20.0	20.0	21.0	21.0	
	MVA	14.0	14.0	14.0	15.0	15.0	MVA	16.0	16.0	16.0	16.0	16.0	
	SW	22.0	22.0	22.0	27.0	27.0	DWT-184F	MVA	20.0	20.0	20.0	20.0	20.0
	KVA	18.0	18.0	18.0	18.0	18.0	SW	20.0	20.0	20.0	20.0	20.0	
	MVA	15.0	15.0	15.0	15.0	15.0	KVA	20.0	20.0	20.0	20.0	20.0	
	SW	40.0	40.0	40.0	40.0	40.0	MVA	20.0	20.0	20.0	20.0	20.0	
	DWT-184E	SW	20.0	20.0	20.0	20.0	SW	20.0	20.0	20.0	20.0	20.0	
	SW	18.0	18.0	18.0	18.0	18.0	SW	20.0	20.0	20.0	20.0	20.0	

Comprehensive performance data across various voltage connections and frequencies (50Hz/60Hz).

### Key Performance Metrics

**1500 rpm**

Rated Speed (50Hz)

**1800 rpm**

Rated Speed (60Hz)

**125 °C**

Temp Rise

### Insulation Class

Class H

### Excitation System

Brushless

## Three-Phase Ratings (50Hz)

### Three-Phase 50Hz / 1500rpm Data

Model	Rating (kVA)	Power (kW)	Efficiency (%)
184E	22.5	18	84.5
184F	27.5	22	86
184G	31.3	25	86.4
184H	37.5	30	86.9
184J	42.5	34	87.1

## Single-Phase Ratings (50Hz)

### Single-Phase 50Hz / 1500rpm Data

Model	Rating (kVA)	Power (kW)	Efficiency (%)
184E	15	15	81.9
184F	18.5	18.5	83.3
184G	21	21	83.9
184H	25	25	82.9
184J	28	28	83

## Physical Characteristics

Detailed physical dimensions for single and double bearing configurations along with logistics data.

### Construction Details

- Metallic housing with ventilation grills
- Integrated terminal box for electrical connections
- Mounting base for secure installation
- Rotating assembly with multiple poles
- Stator winding for AC power generation

### Bearing Configurations

Single Bearing, Double Bearing

## Logistics

### Shipping Details (Standard Models)

Model	Net Weight (kg)	Gross Weight (kg)	Dimensions (cm)
184E	120	133	84x59x75
184F	150	156	84x59x75
184G	156	172	84x59x75
184H	216	226	85x55x85
184J	226	236	85x55x85