

Comprehensive Specification Sheet

Low-Voltage AC Alternator Electrical and Mechanical Data



World-Class Alternators

Setting new standards in all aspects from design, manufacturing, material selection and production to testing equipment, tooling and quality control.

Tough: Our alternators are trusted as a component in the production of stationary diesel generator sets, mobile power plants and other power generation equipment which is supplied to various commercial, agricultural, refrigeration, residential, government and military services.

Trusted: Our product is highly regarded for its superior quality and performance. The alternators are used as the main power supply for three major satellite launch bases, for a station in Antarctica and for a spacecraft series.

Tested: Our products are thoroughly tested in different environments to ensure unsurpassed quality and reliability. Our stringent tests verify overall performance and align our products with most internationally-recognised standards.

Standards

- StromerPower alternators meet all key international standards and regulations
- The 4-pole alternator complies with the following major domestic and international standards and regulations: GB755, BS5000, IEC60034, VDE0530, CSAC22.2 100 and NEMA MG-1.22
- It is designed, manufactured and marketed in an ISO 9001 quality assurance environment
- Alternator can be integrated in CE-marked generator set

Electrical Characteristics and Performance

- Class H insulation
- 2/3 pitch winding
- Voltage Range: 50Hz: 220v 240v and
- 380v 415v (440v)
- High efficiency and motor starting capacity
- Low reactances

Specifications Overview

Three Phase / 50Hz / 400V / PF = 0.8					
Continu	ous 40℃	Standby 40°C			
kw	kw kVA		kVA		
150	188	165	206		

Rated Frequency	Voltage	Voltage Regulation	Voltage Regulation Change	Phase Change Rate	Power
Hz	v	v	% UN	%	Factor
50	400	+/- 1%	< +/- 10	+/- 1	0.8

Insulation Class	Туре	Phase and Connection	
н	Brushless	Three Phase	4 Pole

AVR Model	Stator	Rotor
SX460	2/3 Pitch	Single Bearing



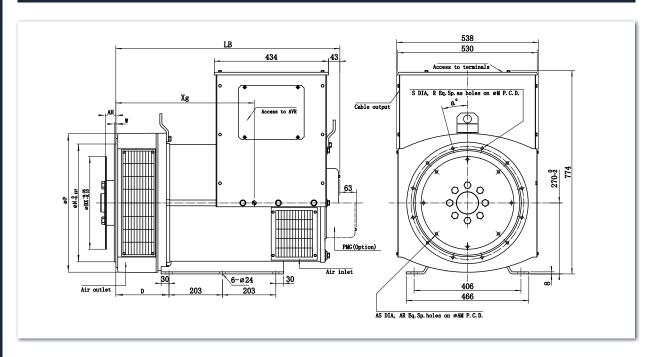
Mechanical Construction

- StromerPower enclosures are IP23
- All rotors are dynamically balanced in strict accordance with the requirements of the ISO1940 standard
- Robust flanges and shields
- The large junction box makes wiring and adjustment of the AVR easier
- Space for current transformers or other optional modules to be installed
- Compact design and sturdy assembly to withstand generator vibrations
- All our alternators use long-term sealed bearings
- Steel base

Excitation System Regulations

- Self-Excitation Standard
- Parallel Use: When the appropriate modules (AVR, current transformer and control equipment) are installed, all 4-pole alternators can be used in parallel
- Bearing Capacity: NEMA specifications
- **Waveform:** According to the IEC standard, the total harmonic distortion rate is less than 5% under
- no-load or non-linear load. The telephone interference factor (TIF) is less than 50 in accordance with NEMA specifications
- **Frequency:** To be used at a frequency of 50Hz (standard windings) (No. B31, B32)
- **Power Factor:** The alternator is designed for loads with a power factor of 0.8

Single-Bearing Outline Schematic



SAE Rating

	LB		.,	Weight
Model	SAE	LC	Xg	kg
SP4-G150D8	901	434	416	543

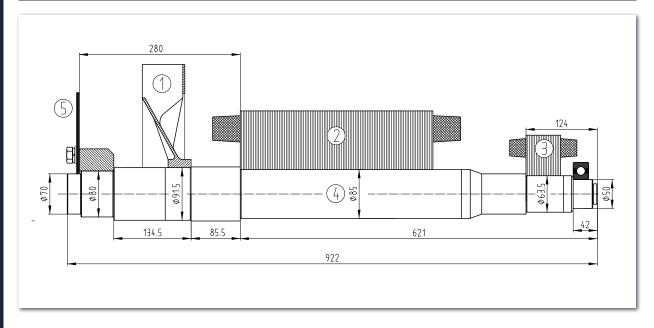
Adapter

245	вх	AM	AR - øAS	АН			
SAE	mm						
11.5	352.425	333.38	8 - ø11	39.6			

Flange

245	Р	N	М	R - øS	w	D	a°
SAE			mm				
2	530	447.675	466.725	12 - ø12	5	202	15

Torsional Analysis Data



Fa	Fan		Main Rotor Excitation Rotor S		tor Excitation Rotor		aft	To	tal
Weight (kg)	J(kgm²)	Weight (kg)	J(kgm²)	Weight (kg)	J(kgm²)	Weight (kg)	J(kgm²)	Weight (kg)	J(kgm²)
4.3	0.0394	133.12	1.6748	16.3	0.1265	44.3	0.0492	198	1.8899

045	5	Shafts Coupling Flex Plate			
SAE	D	L	Weight (kg)	J(kgm²)	
11.5	290	992	3.44	0.0291	

Dimensions

Unpacked				Pac	ked		
Length	Width	Height	Net Weight	Length	Width	Height	Gross Weight
mm		kg	mm			kg	
959	538	774	543	1050	630	970	581



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The accuracy cannot be guaranteed as StromerPower have an ongoing process of development and reserve the right to change the specification of their products without notice.

