

# STROMER

POWER

## Comprehensive Specification Sheet

Low-Voltage AC Alternator  
Electrical and Mechanical Data



# STRO-715K

675kVA Prime / 743kVA Standby  
Three Phase / 50Hz / 4 pole

## 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 |     |         |       |
|--------------------------------------|-----|---------|-------|
| Continuous                           |     | Standby |       |
| kw                                   | kVA | kw      | kVA   |
| 675                                  | 743 | 594     | 742.5 |

| Rated Frequency | Voltage | Voltage Regulation | Voltage Regulation Change | Phase Change Rate | Power Factor |
|-----------------|---------|--------------------|---------------------------|-------------------|--------------|
| Hz              | v       | v                  | % UN                      | %                 |              |
| 50              | 400     | 1%                 | 5%                        | +/- 1             | 0.8          |

| Insulation Class | Type   | Phase and Connection |        |
|------------------|--------|----------------------|--------|
| H                | IM B35 | Three Phase          | 4 Pole |

| AVR Model | Stator    | Rotor          |
|-----------|-----------|----------------|
| KR440     | 2/3 Pitch | Single Bearing |



- 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

- **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

- **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

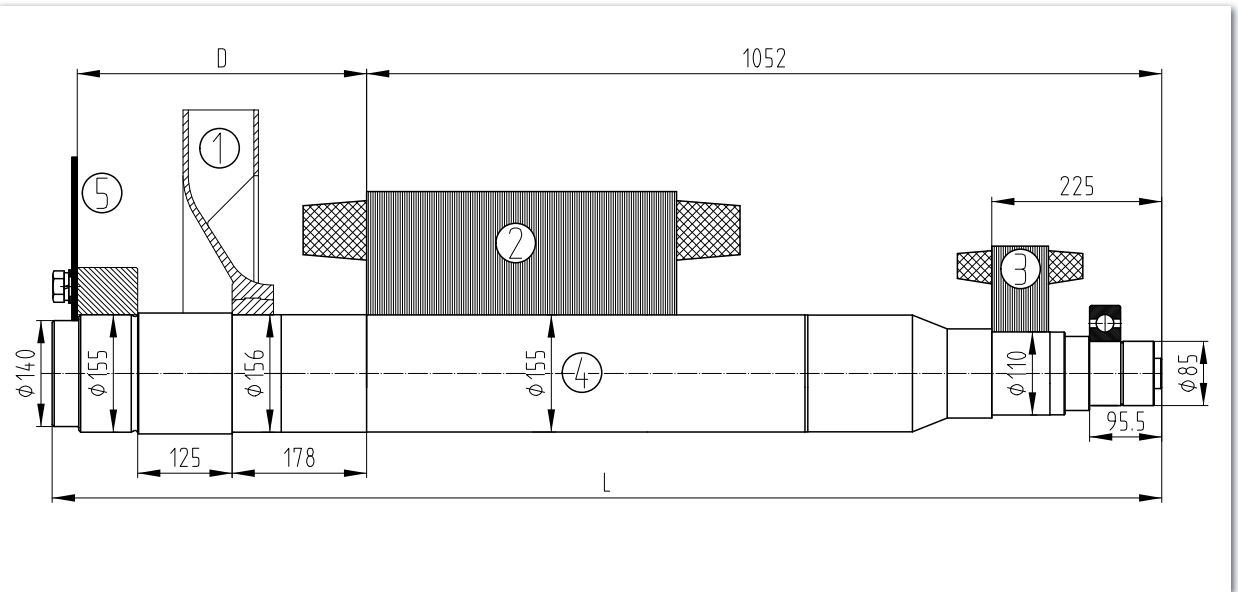
Technical drawing of the 1000mm x 1000mm x 100mm 1U rackmount server chassis. The drawing includes three views: a front elevation, a side elevation, and a top view. The front elevation shows the chassis with dimensions for height (1000mm), width (1000mm), and various mounting and clearance dimensions. The side elevation shows the depth of the chassis (100mm) and the location of the front and rear doors. The top view shows the circular front door with dimensions for the door frame and the central mounting area. Key features include the front door with a handle and lock, the rear door with a handle and lock, and the internal components including the power supply and cooling fans. The drawing is labeled with '1000mm x 1000mm x 100mm 1U' and '1000mm x 1000mm x 100mm 1U'.

| Model     | LB   | LC  | Xg  | Weight |
|-----------|------|-----|-----|--------|
|           | SAE  |     |     | kg     |
| STRO-715K | 1197 | 451 | 575 | 1349   |

| SAE | BX    | AM    | AR - ØAS | AH   |
|-----|-------|-------|----------|------|
|     | mm    |       |          |      |
| 14  | 466.7 | 438.2 | 8 - Ø14  | 25.4 |

| SAE | P   | N      | M      | R - øS   | W | D   | a° |
|-----|-----|--------|--------|----------|---|-----|----|
|     | mm  |        |        |          |   |     |    |
| 1   | 722 | 511.18 | 530.23 | 12 - ø12 | 6 | 297 | 15 |

## Torsional Analysis Data



| Fan         |         | Main Rotor  |         | Excitation Rotor |         | Shaft       |         | Total       |         |
|-------------|---------|-------------|---------|------------------|---------|-------------|---------|-------------|---------|
| Weight (kg) | J(kgm²) | Weight (kg) | J(kgm²) | Weight (kg)      | J(kgm²) | Weight (kg) | J(kgm²) | Weight (kg) | J(kgm²) |
| 17.4        | 0.403   | 411.7       | 7.529   | 21.7             | 0.6556  | 101.7       | 0.1836  | 552.5       | 8.7712  |

| SAE  | 5   | Shafts Coupling Flex Plate |             |         |
|------|-----|----------------------------|-------------|---------|
|      | D   | L                          | Weight (kg) | J(kgm²) |
| 1/14 | 297 | 1197                       | 7.7         | 0.219   |

## Dimensions

| Unpacked |       |        |            | Packed |       |        |            |
|----------|-------|--------|------------|--------|-------|--------|------------|
| Length   | Width | Height | Net Weight | Length | Width | Height | Net Weight |
| mm       |       |        | kg         | mm     |       |        | kg         |
| 1240     | 722   | 934    | 1363       | 1390   | 840   | 1135   | 1459       |

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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.*

