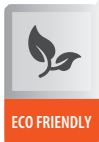# STS 2000

**Compact and Rack Type Design**

**Microprocessor Control**

**Hot-Swappable**

RACK   SERVICE / TECH. SUPPORT   ECO FRIENDLY

STS 2000 1 phase, 2 pole static transfer switch transfers uninterruptedly critical loads to either of two independent AC power lines. The system monitors two AC inputs. If any of them goes out of the specified tolerance, it transfers the critical load to the other. By increasing the energy quality of the systems used with STS 2000, while reducing the effects of interference and short interruptions, a backup power system is gained.
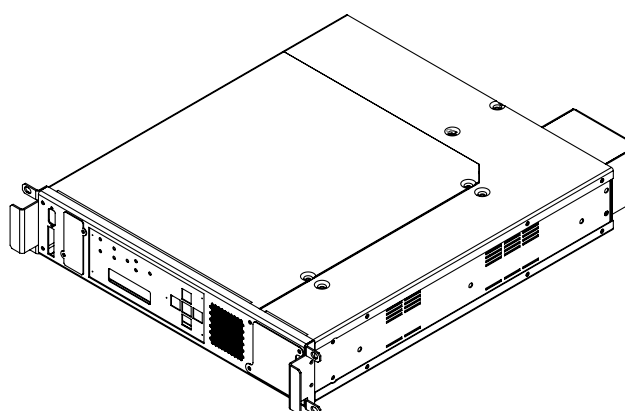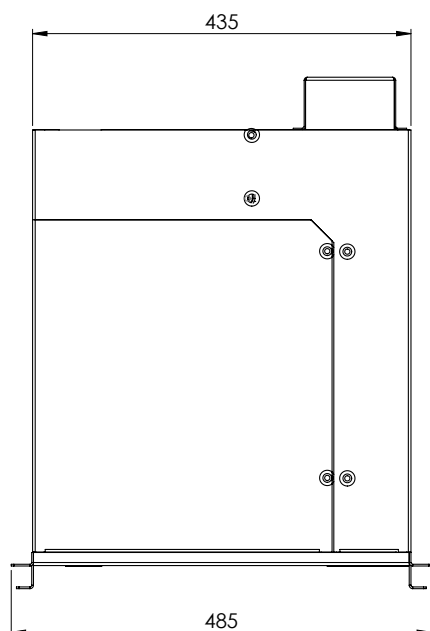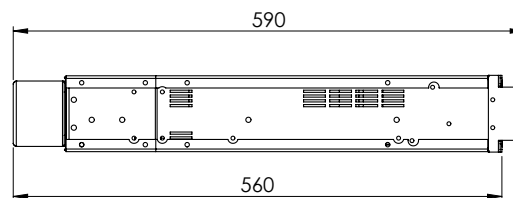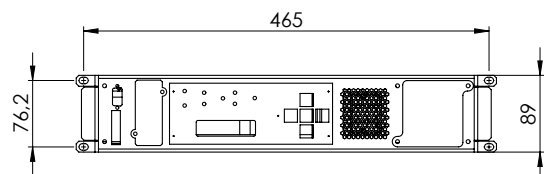
## GENERAL SPECIFICATIONS

• Full digital control with microprocessor controlled structure

• 2 AC inputs with 1 phase and neutral switching

• Easy installation and maintanance

• Compact and rack type design

• Wide input voltage range

• "Break Before Make" type transfer

• Very fast uninterrupted transfer even in case of any failure
  (≤4ms- for sencronised sources)

• Selectable preffered source

• Fuse-free construction with a robust, high reliability SCR

• Digitally controlled system set points

• Programmable synchronized and unsynchronized transfers

• Isolation protection between sources with switched neutral

• Convenient and multifunctional front panel and diagnostic codes

• Transfer inhibit system over a certain current value

• Overload, over temperature and short circuit protections

• Convenience during maintenance and repair with Isolated
  Maintenance Bypass

• Remote monitoring of energy resources

• TCP / IP, SNMP, MODBUS and RS232 infrastructure for communication

• Dry-contact interface

• Internal cooling fans

• Hot-swap feature (Optional)

• Optional external AC power supply socket outlet

• Optional SNMP adaptor

# STS2032 - STS2063 STANDARD
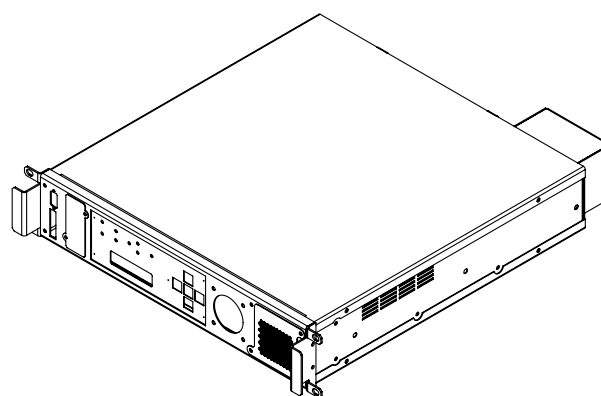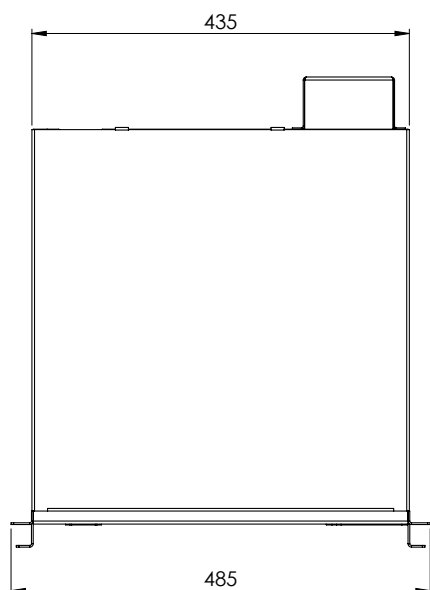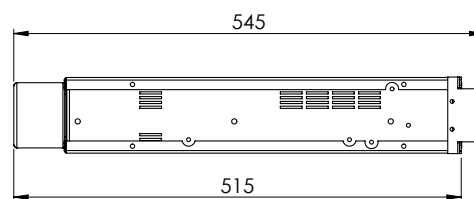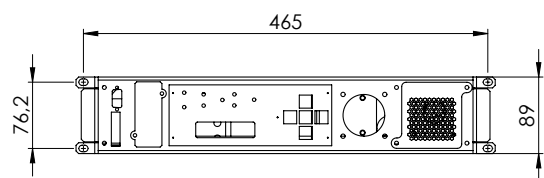


# STS2032 - STS2063 HOT-SWAP

# TECHNICAL SPECIFICATIONS

| MODEL | STS2032 | STS2063 | STS2120 |
|---|---|---|---|
| Nominal current | 32 A | 63 A | 120 A |
| **ELECTRICAL DATA** | | | |
| Input voltage | 220/230/240 VAC 1P + N + G | | |
| Input voltage range | 180-264 VAC (Ph-N) | | |
| Input frequency | 50Hz. / 60Hz. | | |
| Input frequency range (operation range adjustable) | 46-54Hz (for 50Hz) | | |
| | 56-64Hz (for 60Hz) | | |
| Transfer type | "Break before make" | | |
| Transfer methods available | Automatic / Manual / Remote | | |
| Transfer control | synchron | | |
| | with adjustable delay (non synchron) | | |
| | zero current (non synchron) | | |
| Transfer time | ≤ 4 msec for synchronous sources | | |
| | ≤ 10 msec for non-synchronous sources | | |
| Switching type | 1 phase + Neutral switching (2-Poles) | | |
| Output current crest factor | 3:1 | | |
| Admissible overload | 0-100% continuous | | |
| | 101-150% 1 minute | | |
| | 151-200% 10 seconds | | |
| | > 200% 250 msec | | |
| Protections | Output overload and short circuit protection, Overtemperature protection, Backfeed protection | | |
| LCD panel and mimic | Standard | | |
| Communication | RS232 standard, RS485 optional, SNMP optional | | |
| TCP/IP connection | Optional | | |
| Dry contacts | 3 programmable relay outputs | | |
| Breaking current capacity (SW1,SW2) | 10kA | | |
| **ENVIRONMENTAL DATA** | | | |
| Cooling | Forced cooling (redundant fans) | | |
| Cooling air direction | From front to rear | | |
| Operating temperature | 0°C - 40°C | | |
| Storage temperature | -10°C up to +50°C | | |
| Relative humidity | 90% max. (non-condensing) | | |
| Protection degree | IP20 | | |
| Standards | EN62310-1, EN62310-2 | | |
| Max. operation height | 1000m. at nominal current rating | | |
| Acoustic noise | < 50 dBA | | < 52 dBA |
| **MECHANICAL DATA** | | | |
| Weight (kg) | 12 | 13 | 20 |
| Dimensions | 2U (19''rack), Width = 485mm, Depth = 545mm | | 3U (19''rack), Width = 485, Depth = 605mm |
| | 2U (19"rack), Width = 485mm, Depth = 590mm (hot-swap) | | 3U (19"rack), Width = 485, Depth = 645mm (hot-swap) |
| Power cables connection | Clip-on terminals (on the rear panel) | | |