

Upsilon STS 30 to 600 A Static Transfer Switch



Upsilon STS for reliable, optimised source redundancy

Go for high availability !
Upsilon STS lies at the heart of a redundant system. It continuously analyses the power sources and selects the best to improve the availability of your installation and facilitate site operations.

- ▶ **Performance and reliability**
- ▶ **New functions**
- ▶ **Wide range of ratings and configurations**
- ▶ **Simple to install and use**

Switch to high availability

THE UNINTERRUPTIBLE POWER PROVIDER

MGE
UPS SYSTEMS

Active redundancy principles

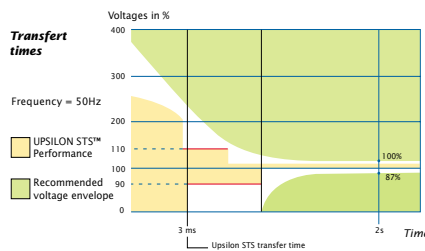
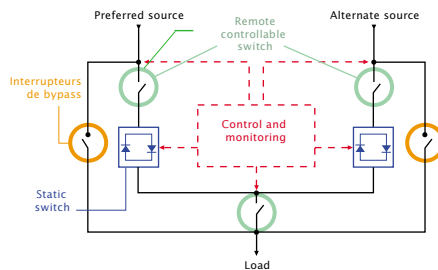
Upsilon STS supplies a number of loads from one of two independent and redundant sources. It ensures no-break transfer from the preferred source to the alternate source in either automatic mode (according to user settings) or manual mode.

Advantages

- > secure maintenance by de-energising a part of the installation for servicing;
- > simplified maintenance because servicing is fast and does not require interrupting power to the load;
- > improved power availability and possible upgrading to higher ratings;
- > no risk of fault propagation from one source to the other.

No-break transfer

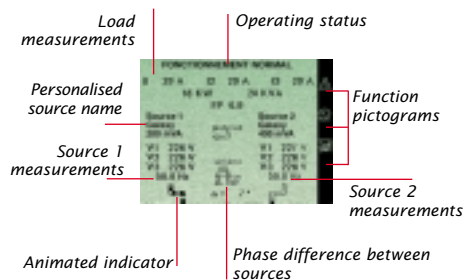
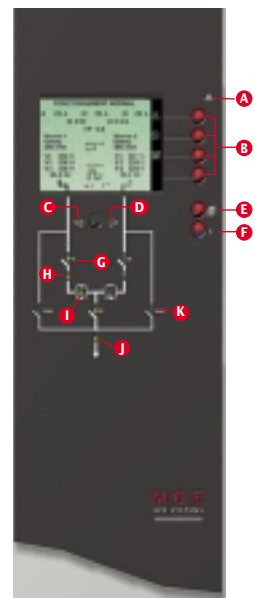
Upsilon STS uses the "break before make" technique which ensures no source overlapping, i.e. the sources are never in parallel during transfer. This function eliminates any risk of fault propagation between the two sources. Upsilon STS guarantees transfer in just three milliseconds, three times faster than the value recommended by the ITI (former CBEMA).



Standard functions

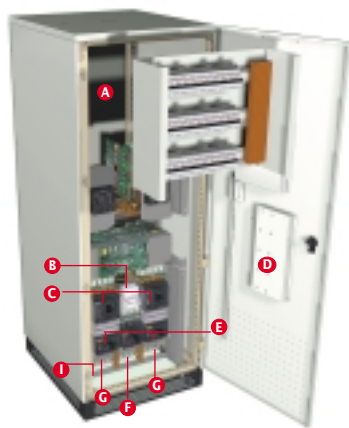
- ▶ continuous monitoring of the sources (eleven parameters, etc.);
- ▶ manual or automatic source transfer and return with no break in the supply of power;
- ▶ rolling-synch function for secure transfer between desynchronised sources;
- ▶ redundant internal STS functions (power supply, controls, fans);
- ▶ isolation switches for maintenance;
- ▶ oversized neutral conductor;
- ▶ graphic LCD screen and multilingual display for easy and user-friendly access to the information and setting screens;
- ▶ animated mimic panel for immediate information on system status;
- ▶ two slots available for communication cards;
- ▶ JBus/Modbus (RS232 or RS485) and dry-contact (six 250 V 2 A relays) communication interfaces.

- A General alarm
- B Function keys
- C Identification of the preferred source
- D Manual-transfer button
- E Menu key
- F Help key
- G Switch status
- H Source status (green, orange, red)
- I Static-switch 1 status (green, red)
- J Output status
- K Bypass status



Optional equipment

- ▶ connection via the top;
- ▶ Monitor Pac supervision software;
- ▶ JBus/Modbus and dry-contact communication cards
- ▶ PDU power distribution unit (36 x 16 A circuit breakers, can be installed in the 1900 mm cabinet up to 100 A);
- ▶ PMM distribution cabinet.



- A Free space for: -optional PDU with 36 (16A) circuit breakers -top connections
- B Supply circuit breaker for the control electronics
- C Source S1 and Source S2 switches
- D Slots for communication cards
- E Source S1 and Source S2 bypass switches
- F Output switch
- G Source S1 and Source S2 connections
- H Load connections
- I Connection bar for earth or oversized PEN conductor

Characteristics

Ratings (A)	30	60	100	160	250	400	600
Source inputs							
Rated voltage	380 V (-35%) - 400 V - 415 V (+20%)						
Rated frequency	50 Hz ou 60 Hz (+/- 10%)						
Number of phases	3 ph + N + T ou 3 ph + N						
Operation							
Permissible overloads	110% 15 min - 150% 2 min - 200% 20ms						
Efficiency (linear load & pf = 0.8)	0,99						
Transfer time	3 ms (typique) / 5 ms (maxi)						
Environment							
Air flow (m3/hr)	350		1600		2300		
Operation	0°C à 40°C						
Storage temperature	-20°C et +40°C						
Noise level (dBA)	< 60 dB						
Standards							
Manufacturing and safety							
EN 50091-1/CEI 62040, CEI 60950							
EN 50081-2, EN 50178, EN 50082-2							
EMC							
EN 50091-2							
Certifications							
TÜV, CE							
Dimensions and weight							
Height x Width (mm)	1400 x 600 ou 1900 x 715			1900 x 715			
Depth H = 1400 (mm)	500			-			
Depth H = 1900 (mm)	840			840			
Weight (kg) For H = 1400 mm	193		211		-		
Weight (kg) For H = 1900 mm	215		225		327		

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