



Illustrative photo

### General Features

- Full microprocessor control, compact design
- High efficiency, very high MTFB
- Short switching time
- Input / Output RFI meet international standards
- Complete supervision possibility
- On-Line / Off-Line configuration while system running
- Large synchronization range
- Alphanumeric display

### Application

- Telecom and Industrial applications.

### Description

The STM 65 static switch has been developed to work with RDI parallel inverter modules, used in Telecom and Industrial applications. It allows secondary source backup in case of primary source problem.

Off-Line and On-Line mode can be configured in the menu, even if the system is running.

Thanks to the full microprocessor control and intelligent management during load transfer, the reliability is highly improved. All the functional information is available both locally and remotely with the SYS3000 controller and the PSM2000 software or via Ethernet with DVV RB-01.

### Technical data

Model	STM 65 – 120 VAC	STM 65 – 230 VAC
<b>Input specifications</b>	<b>120 VAC</b>	<b>230 VAC</b>
Operating voltage range (selectable for STM 150)	95 ÷ 150 Vrms	180 ÷ 275 Vrms
Input frequency range (selectable)	47,5 ÷ 52,5 Hz or 57,5 ÷ 62,5 Hz	
<b>Maximum permanent current</b>	<b>120 VAC</b>	<b>230 VAC</b>
Maximum permanent current	65 A	
<b>Transfer performance</b>	<b>120 VAC</b>	<b>230 VAC</b>
Maximum voltage interruption	60 µs – 5 ms (typical: 2 ms)	
Total transient voltage duration (max)	60 µs – 10 ms (typical: 3 ms)	
<b>Efficiency</b>	<b>120 VAC</b>	<b>230 VAC</b>
Efficiency at full load	>99%	
<b>Voltage conformity (rms)</b>	<b>120 VAC</b>	<b>230 VAC</b>
Maximum mains, adjustable	125 ÷ 150 V	250 ÷ 275 V
Minimum mains, adjustable	95 ÷ 110 V	180 ÷ 210 V
Minimum inverters, adjustable	95 ÷ 110 V	180 ÷ 210 V
Maximum inverters, adjustable	125 ÷ 150 V	250 ÷ 275 V
Load level to come back after overload	75 ... 95% (with RDI modules)	
<b>EMC</b>	<b>120 VAC</b>	<b>230 VAC</b>
Standards applied for emission	FCC part 15 class A, CISPR 22 class B	
<b>Temperature</b>	<b>120 VAC</b>	<b>230 VAC</b>
Storage temperature	- 40°C ÷ + 80°C	
Permissible ambient temperature	- 20°C ÷ + 50°C	
<b>MTBF</b>	<b>120 VAC</b>	<b>230 VAC</b>
MTBF	>400 000 h	
<b>Supervision</b>	<b>120 VAC</b>	<b>230 VAC</b>
Supervision possibility	With SYS 3000 controller DVV RB-01	
<b>Signalling and measurement</b>	<b>120 VAC</b>	<b>230 VAC</b>
Signalling and measurement	LCD display (2 lines x 16 characters) + 3 LEDs 5 free potential contacts	
<b>Safety</b>	<b>120 VAC</b>	<b>230 VAC</b>
Safety	EN 60950 / UL 1950 / UL 1778 (Rack)	
<b>Dimensions and weight</b>	<b>120 VAC</b>	<b>230 VAC</b>
Dimensions (wdh)	438 x 348 x 3U mm	
Weight	7,5 kg	