

The power advantage ...

Static switch SSW 230 V - 20 kVA



Features

- 230 Vrms / 50 Hz / 20 kVA single phase
- ON LINE or OFF LINE mode selection
- High performance AC line quality monitoring
- Quick detection of AC faults
- Configurable switching criteria
- Load transfer of up to 20 kVA
- Synchronisation of the Delta inverter group
- Convection cooled
- Compact and light
- Power connectors on the rear

Applications

- Indoor and outdoor container
- Medium to large AC power systems
- Modular UPS configurations
- Telecom, wireless, datacom

Description

Static switch SSW 230 V - 20 kVA is a microcontroller driven state of the art switch between the AC mains and the inverter to provide uninterruptible AC power. After an extremely quick detection of a mains fault, the static switch transfers the load almost without cut off to the redundant AC line. A communication and synchronisation bus is responsible for the system performance and the Delta inverters are synchronised to the public AC mains.

Modular UPS configurations in ON LINE or OFF LINE mode can be realised in combination with Delta inverters and DC power systems with battery backup.

The typical applications for this static switch are both in indoor and outdoor containers, which is a perfect solution for UPS, wireless base stations, core network components, telecommunications networks and data networks.

The static switch meets the requirements set by the telecommunications standards.

Product versions:

Static switch SSW 230 V - 6 kVA

SSW 230 V - 20 kVA: Technical specifications

General

Losses, max.	120 W
Safety	EN 60 950, class I
EMI, radiated	EN 55 022, class B
Compliant with	EN 300 386-2
Cooling	Convection cooled

Public AC input

Voltage range	184 – 276 V _{rms}
Frequency range	45 - 55 Hz
EMI, conducted	EN 55 022, class B
Input connector	Rear side
Input protection	External fuse 100 A i ² t £ 50000 A ² s

Inverter AC input

Voltage range	230 V _{rms} ± 1%
Frequency	50 Hz
EMI, conducted	EN 55 022, class B
Input connector	Rear side
Input protection	None

AC output

Voltage, nominal	230 V _{rms}
Frequency, nominal	50 Hz
Maximum power	20000 VA
cos ϕ , range	0 .. 1 ind. and cap.
EMI, conducted	EN 55 022, class B
Output connector	Rear side
Output protection	None

Switching criteria

According to	ETS 300 132-1
Static rms deviation	± 10 %
Dynamic rms deviation	± 15 % for max. 500 ms
Instantaneous values deviation	± (20 % + 90 V)
Static freq. deviation	± 2Hz
Dynamic freq. deviation	± 3 Hz for 5 s maximum
Switching criteria	Configurable by switch
Static rms deviation	± 12%, ± 15%, ± 20%
Dynamic rms deviation	± 17%, ± 20%, ± 25%

Load transfer

Detection time	1.3 ms
Transfer time	£ 10 ms (depending on load type)

User interface

Indication LEDs:	«ok» «Inverter supply» «On line mode» «Off line mode» «Load on inverter» «Load on public» «Overload»
Switches:	Line mode selection Inverter on - off Switching criteria

Controller, system bus

PSC 1000	Static switch fail alarm
Inverter system bus	Synchronization and communication

Mechanics

Width, overall	135 mm
Depth, overall	350 mm
Height, body	266 mm
Height, front panel	311 mm
Weight	8.6 kg

Environment

Ambient temperature	0 ... + 50 °C
Relative humidity	95 % max, non cond.

Accessories

INVBUSD	P/N: D0005980
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Inverter products

FI 48 / 230 V - 1000VA	P/N: D0006203
FI 48 / 230 V - 3000VA	P/N: D0100555

Subject to change due to technical progress