

Starkstrom External UPS Maintenance By-Pass Panel (Compact - Single UPS)

The Starkstrom External UPS Maintenance By-Pass Panel (Compact) is suitable for single UPS systems ranging from 6kVA 1:1 to 10kVA 1:1.

Products are also available for UPS ratings above 10kVA, with advanced features and for parallel system configurations.

It is a requirement of HTM06-1, that any UPS system feeding a Group 2 / Category 5 Clinical Area be installed with an External UPS Maintenance By-Pass Panel.

The By-Pass Panel allows a manual 'break before make' transfer of power from the UPS, to normal mains power, whilst the UPS is isolated for routine maintenance, testing, repair or battery replacement. This ensures the clinical area can continue to function with minimal interruption. It also allows power to be restored quickly, in the event of an emergency.

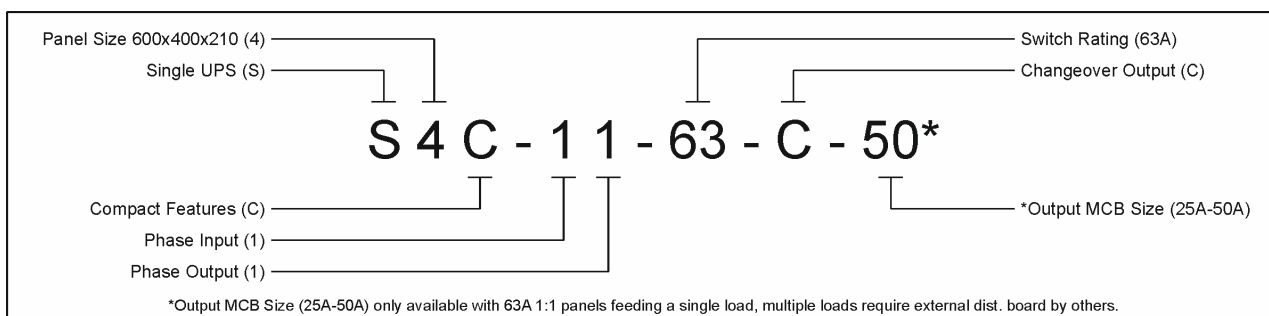
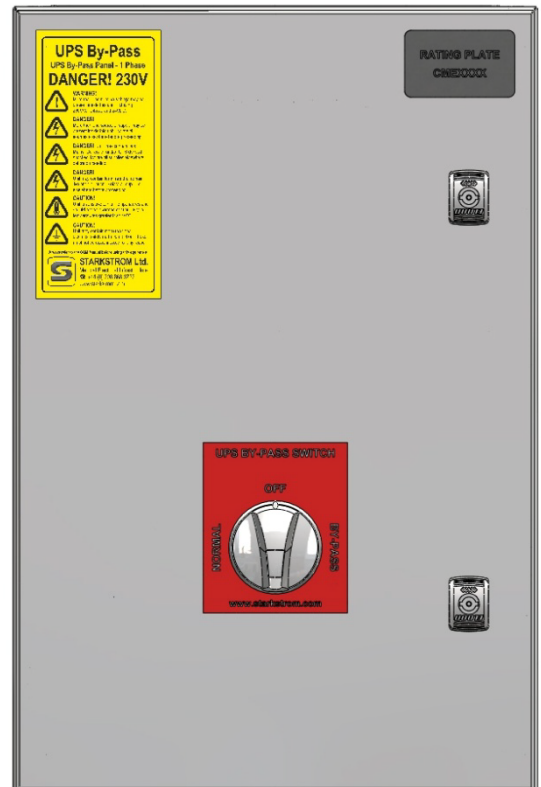
The By-Pass Panel uses a simple, single switch, changeover output configuration, making emergency operation intuitive and eliminating the possibility of unintentional 'back feed' switching.

The By-Pass panel is intended to supply a single output load*, most commonly an Isolated Power Supply (IPS) and comes supplied with a 50A 'D' Type MCB (25A, 32A and 40A available on request).

The By-Pass Panel has the ability to accept a common alarm status signal from the UPS, and provides the following connections for remote alarming;

- Powered output for Starkstrom RA006, giving a visual Ready condition and a visual and audible Fault condition, with mute facility (RA006 to be ordered separately).
- Common alarm contact to BMS.
- Common alarm contact to a Theatre Control Panel.

All Starkstrom By-Pass Panels are fully CE Marked and manufactured in the UK.



FEATURES	S4C-11-63-C-50
UPS kVA Range	6-10kVA
Phase configuration in / out	1 : 1
Nominal voltage input	230VAC 50Hz
Nominal voltage output	230VAC 50Hz
Nominal control voltage	24VDC
Standards	BS EN 61439-1, HD 60364-7-710, HTM-06, BS 7671:2008+A2:2013, BS EN 5372

Switching Devices

Nominal switch rating	63 Amp
Type of switching operation	1 Changeover Output Switch (break before make) Normal – Off – By-Pass Internally mounted isolator for UPS input isolation
Duty Rating / kA Rating	AC-23A / 50kA
Separated by-pass supply	No
Padlockable switch handle	Yes, in OFF position (padlocks not included)
Defeatable switch handle	Yes (for supervised and approved / emergency use only)
Output device	25kA MCB 'D' Type 50A (25A, 32A and 40A available on request)*

Enclosure

Enclosure size	600mm (h) x 400mm (w) x 210mm (d)
Weight	40 Kg
Mounting	Wall mounted (4x M6, Fix. Cen. 560mm (h) x 360mm (w))
Cable entry	Top entry only (via. gland plate 310mm (w) x 95mm (d))
Door configuration	Single (130 deg. opening angle) hinged on LHS
Material	1.2mm thick, mild steel
Finish	Powder coated RAL 7035 (Grey)
IP Rating	IP66

Alarming

Inputs from UPS	1x Common Alarm (N.O. closed when healthy, open on fault)**
Remote alarm unit	1x Powered output for Starkstrom RA006
Volt free contacts	2x Common alarm for BMS and IPS Alarm Integration (N.O. closed when healthy, open on fault)**
Contact Rating	125V AC/DC (60W) 2.0A p.f.=1 (min. 10µA, 10mVDC)
Contact Operation	Fail Safe**

Connections

Mains input cable max. CSA	2x 35mm ²
UPS input/output cable max. CSA	(input) 2x 16mm ² / (output) 2x 16mm
Load cable max. CSA	Via. MCB 2x 35mm ² / Via. Terminals 2x 35mm ² (Optional)
Internal cabling max. CSA	10mm ² power / 0.5mm ² control
Earth connections	6x M8 bolted connection (5 available)
Control cable max. CSA	2.5mm ²

Environmental

Operating altitude	0 – 2000m
Operating relative humidity	5 – 95 % RH NC
Operating temperature	10 – 40 deg. C

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