



Tel +44 (0) 116 464 7480

www.starkstrom.com

33, Turn Street, Leicester LE7 1HP

External UPS Maintenance By-Pass Panel – (Standard - Single UPS)

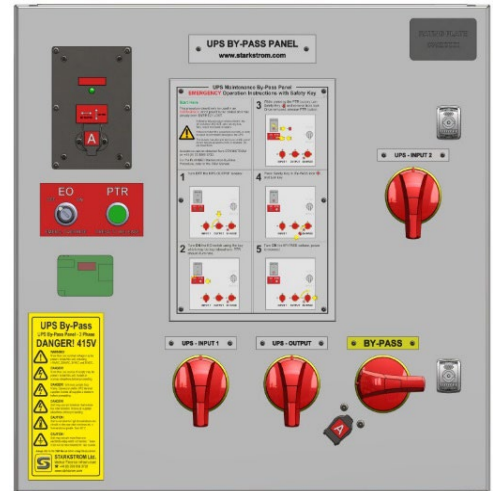
Product Description

The External UPS Maintenance By-Pass Panel (Standard) is suitable for single UPS systems ranging from 6kVA 1:1 to 80kVA 3:3.

Products are also available for UPS ratings above 80kVA and for parallel system configurations.

It is a requirement of HTM06-01, that any UPS system feeding a Group 2 Medical locations is to be installed with an External UPS Maintenance By-Pass Panel.

The By-Pass Panel allows a manual 'no break' transfer of power from the UPS to normal mains power, whilst the UPS is isolated for routine maintenance, testing, or repair or battery replacement. This ensures the clinical area can continue to function without interruption. It also allows power to be restored quickly, in the event of an emergency.

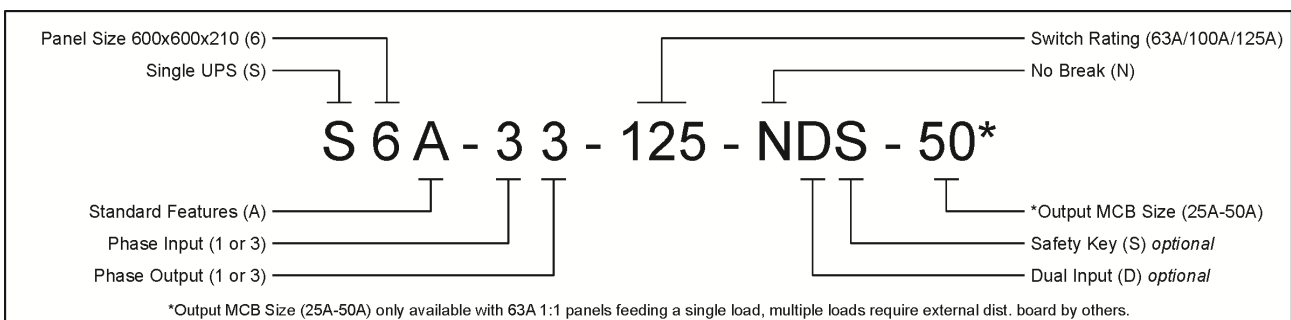


The By-Pass Panel can be fitted with an optional Safety Key Interlock. This increases operator, operational and system safety by helping to prevent unintentional 'back feed' switching. It also increases operator confidence during the by-pass procedure, and provides flexibility to an engineer during routine maintenance, testing, repair, or battery replacement.

The By-Pass Panel contains a UPS Relay Interface Card (URIC), providing easily configurable and expandable UPS status signals to a BMS, Remote Alarm, or Theatre Control Panel. A URIC viewing window allows the direct status of the incoming UPS status signal LED's to be viewed without the need to open the enclosure door.

Depending on the UPS model, the By-Pass Panel can be fitted with the optional Dual Input Mains.

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



EHQiMS Integrated Management System Form: Datasheet
ISO 13485:2016, ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Feature	S6A-11-63-N-50	S6A-31-100-N	S6A-33-63-N	S6A-33-100-N	S6A-33-125-N
UPS kVA Range	6-10kVA	20kVA	30-40kVA	60kVA	80kVA
Phase configuration in / out	1:1	3:1	3:3	3:3	3:3
Nominal voltage input	230VAC 50Hz	400VAC 50Hz			
Nominal voltage output	230VAC 50Hz		400VAC 50Hz		
Nominal control voltage	24VDC				

Switching Devices

Nominal switch rating	63 Amp	100 Amp	63 Amp	100 Amp	125 Amp
Type of switching operation	3 Switch 'no break' (make before break)				
Duty Rating / kA Rating	AC-23A / 50kA				
Separated by-pass supply	Standard, configurable as required				
Lockable 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' 50A*	Terminals, for external dist. board (dist. board not included)			

Enclosure

Enclosure size	600mm (h) x 600mm (w) x 210mm (d)				
Weight	48 Kg	48 Kg	48 Kg	48 Kg	48 Kg
Mounting	Wall mounted (4x M6, Fix. Cen. 560mm (h) x 560mm (w))				
Cable entry	Top entry only (via. gland plate 500mm (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	IP44				

Alarming

Inputs from UPS	Four Individual UPS Status Signals (mains fail, battery low, UPS running, bypass)**				
Remote alarm unit	1x Powered output for Starkstrom RA006				
Volt free contacts	4x Four Individual UPS Status Signals (mains fail, battery low, UPS running, by-pass)				
Contact Rating	7x Common alarm for BMS and IPS Alarm Integration (N.O. closed when healthy, open on fault)**				
Contact Operation	125V AC/DC (60W) 2.0A p.f.=1 (min. 10µA, 10mVDC)				

Connections

Mains input cable max. CSA	2x 35mm ²	4x 35mm ²		
UPS input/output cable max. CSA	(in) 2x 35mm ² / (out) 2x 35mm ²	(in) 4x 35mm ² / (out) 2x 35mm ²	(in) 4x 35mm ² / (out) 4x 35mm ²	
Load cable max. CSA	2x 35mm ²	4x 35mm ²		
Internal cabling max. CSA (for mains cables, excl. ELV DC)	16mm ² power 1.5mm ² control	25mm ² power 1.5mm ² control	16mm ² power 1.5mm ² control	25mm ² power 1.5mm ² control
Earth connections	9x M8 bolted connection (8 available)			
Control cable max. CSA	2.5mm ²			

Environment

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



Product legislation and standards of conformity

EU Ref	EU Title	UK Ref	UK Title
2014/ 35/EU	Low Voltage Directive	2016/ 1101	Electrical Equipment (Safety) Regulations 2016
2014/ 30/EU*	Electromagnetic Compatibility Directive	2016/ 1091	Electromagnetic Compatibility Regulations 2016
2011/ 65/EU	Restriction of Hazardous Substances (RoHS) Directive	2012/ 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Reference	Title	Edition
EN 60947-1	Low-voltage switchgear and control gear - General rules	2007+A2:2014
BS EN 60947-6-1	Low-voltage switchgear and control gear - Multiple function equipment. Transfer switching equipment	2005+A1:2014
EN 61000-6-1*	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	2019
EN 61000-6-3*	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	2021
EN IEC 63000	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	2018
HTM 06-01	Health Technical Memorandum 06-01	2017

* EMCD only applies to active devices like contactors, not to manual switching.

