

powerworks

PW-MBS UPS MAINTENANCE BYPASS SYSTEM

DESCRIPTION

Installation of an external UPS maintenance bypass system allows system maintenance to be carried out quickly and safely without disruption to the protected load. The load is seamlessly transferred to mains supply and the UPS is completely isolated.

APPLICATION

All hardwired UPS (typically UPS rated at over 3kVA) with on-line double conversion technology and having an integral static bypass.



BENEFITS AND FEATURES

- Available in single phase, three phase and three phase input single phase output configurations up to 120kVA (three phase) on a standard build from stock.
- Larger bypass systems, and parallel bypass systems to order on minimal lead-time.
- Full make before break action, UPS can be bypassed without disruption to the supplied load.
- Engineers key with status indicator to prevent unauthorised bypass operation.
- Backup circuit operation to allow fast emergency bypass in the event of complete UPS failure.
- Circuit breakers to protect system from shorts and overloads.
- Circuit breakers are 'D' curve rated to prevent nuisance tripping.
- High quality cabinet in heavy gauge steel with corrosion resisting epoxy paint finish.
- Removable gland plates for easy cable installation.
- Range of flexible options, including full system isolation switch, separate bypass supply switching and intelligent interface to UPS for inverter interlock.
- Additional options that can reduce the overall cost of system installation including combined outgoing distribution with protection circuit breakers and integral surge and lightning protection.

PWS-MBS 3 BYPASS SYSTEM FOR THREE PHASE UPS

UPS SIZE (UP TO)	INPUT	OUTPUT	BYPASS	CABINET SIZE*	CONNECTION TYPE	SUGGESTED CABLE SIZE AT INPUT*
5kVA	10/16	10	10	2	Cage clamp to 10mm csa	2.5mm
7.5kVA	16/20	16	16	2	Cage clamp to 10mm csa	2.5mm
10kVA	20/25	16	16	2	Cage clamp to 10mm csa	4mm
15kVA	32/40	25	25	2	Lug, 6mm stud	6mm
20kVA	40/50	32	32	2	Lug, 6mm stud	10mm
30kVA	63/80	50	50	2	Lug, 6mm stud	16mm
40kVA	80/80	63	63	2	Lug, 8mm stud	16mm
60kVA	125/125	100	100	3	Lug, 8mm stud	35mm
80kVA	160/160	125	125	3	Lug, 8mm stud	50mm
100kVA	200/200	160	160	3	Lug, 10mm stud	70mm
120kVA	250/250	200	200	3	Lug, 10mm stud	95mm

* For guidance purposes only, each installation should be sized by a qualified electrician
2nd figure shown for input relates to UPS with extended battery cabinet

PWS-MBS 1 BYPASS SYSTEM FOR SINGLE PHASE UPS

UPS SIZE (UP TO)	INPUT	OUTPUT	BYPASS	CABINET SIZE*	CONNECTION TYPE	SUGGESTED CABLE SIZE AT INPUT*
700VA	6	6	6	1	Cage clamp to 10mm csa	1.5mm
1kVA	6	6	6	1	Cage clamp to 10mm csa	1.5mm
1.5kVA	10	10	10	1	Cage clamp to 10mm csa	1.5mm
2kVA	16	10	10	1	Cage clamp to 10mm csa	2.5mm
3kVA	16	16	16	1	Cage clamp to 10mm csa	2.5 mm
4kVA	20/25	20	20	1	Cage clamp to 10mm csa	4 mm
5kVA	25/32	25	25	2	Lug, 6mm stud	6 mm
6kVA	32/40	32	32	2	Lug, 6mm stud	6 mm
8kVA	40/50	40	40	2	Lug, 6mm stud	10 mm
10kVA	50/63	50	50	2	Lug, 6mm stud	16 mm
12kVA	63/80	63	63	2	Lug, 8mm stud	25 mm
15kVA(PW1)	100	80	80	2	Lug, 8mm stud	25 mm
20kVA(PW1)	100	100	100	2	Lug, 8mm stud	25 mm

*For guidance purposes only, each installation should be sized by a qualified electrician
#2nd figure in input is for UPS with extended battery cabinet

PWS-MBS 3/1 BYPASS SYSTEM FOR THREE PHASE INPUT, SINGLE PHASE OUTPUT

UPS SIZE (UP TO)	INPUT	OUTPUT	BYPASS	CABINET SIZE*	CONNECTION TYPE	SUGGESTED CABLE SIZE AT INPUT*
8kVA(Link)	50	40	40	2	Lug, 6mm stud	10mm
10kVA(Link)	50	50	50	2	Lug, 6mm stud	10mm
12kVA(PW1)	63	63	63	2	Lug, 6mm stud	16mm
20kVA(PW1)	100	100	100	2	Lug, 8mm stud	25mm
25kVA(PW1)	125	125	125	3	Lug, 8mm stud	35mm
30kVA(PW1)	160	160	160	3	Lug, 8mm stud	50mm

* For guidance purposes only, each installation should be sized by a qualified electrician

CABINET SIZES

Cabinet size 1 = 355(w) x 280(h) x 175(d)

Cabinet size 2 = 550(w) x 550(h) x 205(d)

Cabinet size 3 = 650(w) x 800(h) x 240(d)

* Some options will require that a larger case size be specified

ADDITIONAL SERVICES

UPS

A full range of UPS systems from 1kVA to 300kVA and above configured to precisely meet your needs.

Generators

Diesel Generators provide extended backup time for both the UPS and other critical systems.

Modular IT Rooms

Custom built and fully fitted out high integrity computer rooms offering excellent protection against fire, flood and other environmental risks.

Electrical Installation

Complete end to end installation service to the highest standards.

Maintenance and Emergency Service

24 hours a day x 7 days a week engineering support.

Remote Monitoring and Software

Complete range of network ready monitoring and automatic service shutdown software.

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