

Automatic Transfer Switch

MULTI-SOURCE 230V or 110V AC SWITCHING



KEY FEATURES

- Simple to fit
- Current up to 20A
- Power switching to 4.6kW
- Pre-made plug and socket connections
- “Input/Output live” indicators
- IP66 rated enclosure (IP20 connectors)
- Earth leakage trip protection module

The basic 2+2 Automatic Transfer Switch allows power to be safely switched between any two AC input sources (typically a landline and a backup inverter) and two outputs (often “essential” and “non-essential” loads) . The 3+3 Automatic transfer switch switches between 3 sources—typically a shoreline, an on-board gen-set and a back-up inverter.

Either unit can be used in conjunction with shoreline, traditional generating sets, combination inverters/chargers and belt or hydraulically driven generators.

Using the two types in conjunction or “daisy chaining” them enables complex systems to be accommodated. Either unit can be configured for 230VAC or 110VAC use.

The protection module completes the picture making an easy to install safe and reliable system.

If you need transfer switches for your application, our engineers are able to advise how to apply these modules or if necessary adapt the concept to meet your exact requirements.

Overview

The system incorporates all the necessary switching between landline and inverter. One input—usually the landline, is prioritised and used when available, but when it isn't automatically switches to the alternative input. Where more inputs are present, a 3+3 can be used, or units can be “daisy-chained” to build a more complex system out of standard components.

Safety

The transfer switch system is designed to interlock the various power sources so that only one source can be used at a time. This ensures that there is no danger of live mains appearing on the exposed pins of any external leads elsewhere in the installation.

This feature also ensures that no “out of phase” arcing can appear on the output of the attached inverter avoiding damage to the output power devices.

The system conforms to the requirements of the European low voltage directive with contact separation distances in excess of 6mm.

Installation simply requires removal of the cover, exposing four corner fixings.

Engineering support

Please call one our applications engineers if you need any assistance. As designers and manufacturers of this equipment we can undertake bespoke products not covered in this literature.



FM 37786
ISO 9001:2008

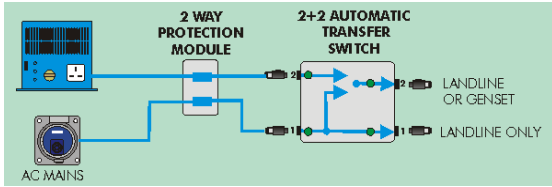
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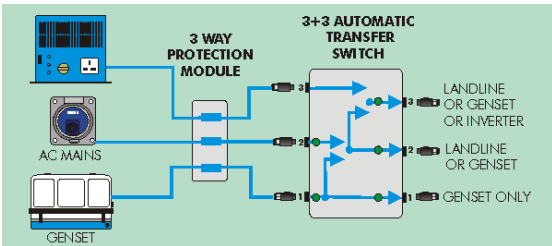
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Auto Transfer Switch

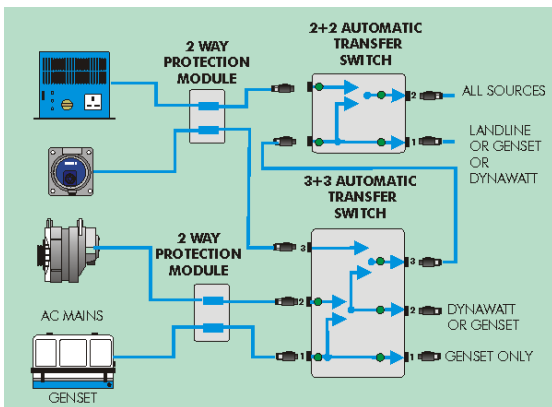
MULTI-SOURCE 230V or 110V AC SWITCHING APPLICATIONS



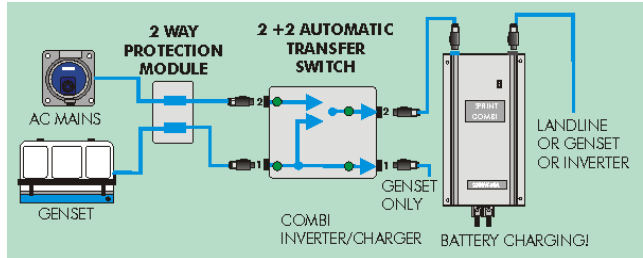
2+2 AUTO TRANSFER



3+3 AUTO TRANSFER



4+4 AUTO TRANSFER



2+2 AUTO TRANSFER WITH OFF-LINE BACKUP



3 + 3 protection module



PROTECTION MODULE	90093	90094
Description	2 WAY PROTECTION MODULE	3 WAY PROTECTION MODULE
Voltage	230VAC or 110VAC	230VAC or 110VAC
Max current	20A	20A
Compliant	Low voltage directive	
Protection	30mA Leakage protection	
Connection	Hard wired via knockout glands	
Weight	TBA kg	TBA kg
Dimensions	TBA mm	TBA mm
Temp range	-10 to 45°C, 0 to 95% RH	
Environmental	IP20 "in cab" mounting	

AUTO TRANSFER SWITCH	90096	90108	90097	90109
Description	2+2 AUTO TRANSFER (20A/230V)	2+2 AUTO TRANSFER (20A/110V)	3+3 AUTO TRANSFER (20A/230V)	3+3 AUTO TRANSFER (20A/110V)
Source voltage	230VAC	110VAC	230VAC	110VAC
Source input	20A/4.6kVA	20A/2.2kVA	20A/4.6kVA	20A/2.2kVA
Compliant	Low voltage directive			
Indicators	4 x green		6 x green	
Connection	Neutrik Powercon, — mating connectors supplied			
Weight	TBA	TBA	TBA	TBA
Dimensions	180x110x111(H) mm		TBA	
Temp range	-10 to 45°C, 0 to 95% RH			
Environmental	IP20 "in cab" mounting			
Optional parts	90106 90107 64279 64280	NEUTRIK LINK LEAD (230V/BLEU/2M) NEUTRIK LINK LEAD (110V/YELLOW/2M) NEUTRIK PLUG OUTLET (GREY) NEUTRIK PLUG INLET (BLUE)		