Durapower
MANUFACTURING (PTY) LTD

DP1000SA

STATIC TRANSFER SYSTEMS

Single Phase

Electronic equipment used in process control, data processing, communications and strategic installations requires a reliable power supply to ensure interruption free operation. In order to create a complete redundant power supply, two separate feeds can be used to supply the load via the static switch. In the event of one of the supplies failing the load will automatically be transferred to the alternative supply.

PROTECT YOUR CRITICAL LOADS

FEATURES

- Selectable primary source, namely A or B supply
- Manual Transfer between sources
- Automatic Transfer on source fail
- Break before make transfer
- Dual Maintenance bypass
- Dual redundant electronic power supplies
- Potential free contacts (optional)
- Auxiliary control input
- LCD panel display
  - Input Voltage
  - Output Voltage
  - Output current
- Serial communication (RS232)

OPERATING CONCEPT

Each static switch consists of a single back to back thyristor pairs (total of 4 thyristors for complete static switch). Suitable control electronics enable correct firing and control of these thyristors making them act as two single phase electronic switches.

The load is supplied via the A or B switch depending on the position of the supply selector switch on the front panel. Changing the position of the supply selector switch allows the user to select which is the preferable supply to be used. If one of the supplies fails then the load is automatically transferred to the other supply.

Taking Charge of Clean Power

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Amecor AMALGAMATED ELECTRONIC CORPORATION

Models	UOM	DP1030SA	DP1050SA	DP10100SA	DP1150SA
Parameters					
Voltage	VAC	230V standard 2 Wire + Earth			
Output Rating	A	30	50	100	150
Phases		1 Phase 1N + E			
Output Frequency	Hz	50/60HZ			
Crest Factor		3:1			
Detection Transfer Time	ms	2 to 4 ms			
Transfer Time Delay	ms	5 ms – Lockout after 3 attempts			
Maximum allowable phase angle	ms/deg	2.2 ms/40deg			
Overload	%	125% For 20 min			
Heat Generation	W	50	150	300	400
Cooling		Convection		Forced	
Recommended Supply Cable	mm²	4	10	25	35
Physical Parameters					
Dimensions UPS (WxHxD)	mm	300x450x360		600x600x360	
Colour		Anthracite Grey - RAL7016			
Protection		IP21			
Standards		IEC60146-1-1, IEC 61000-4-2			
Environmental					
Operating Temperature		-10 to -40 deg Celsius,			
Humidity		0-90% non condensing			

While every precaution has been taken to ensure accuracy of this specification, Durapower Manufacturing assumes no responsibility, and disclaims all liability for damages resulting from use of this information. Specification subject to change without notice.

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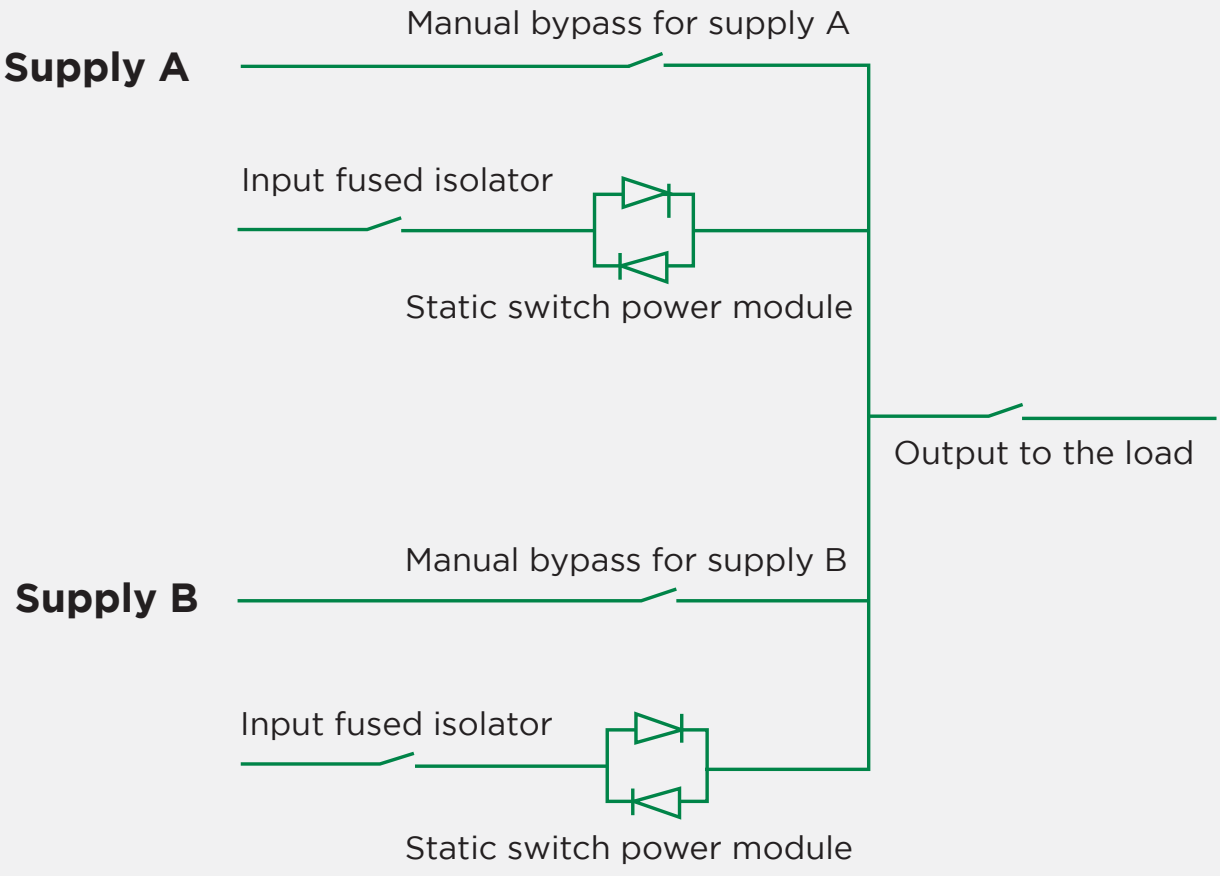
BASIC BLOCK DIAGRAM OF THE STATIC SWITCH



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Manufactured in South Africa