



### REDUNDANCY MODULE

- For N+1 and 1+1 Redundant Systems
- Dual Input with Single Output
- Minimal Losses - Mosfets Instead of Diodes
- Only 50mV Voltage Drop at 40A Output Current
- Only 2.7W Loss at 40A and 8.3W at 80A Output Current
- 160% (130A) Peak Load Capability
- Reverse Polarity Protected Input
- Full Power Between -40°C and +70°C
- Width only 46mm
- Rugged Metal Housing
- Easy Wiring:  
Distribution Terminal for Negative Pole Included
- 3 Year Warranty

### GENERAL DESCRIPTION

The YR80.241 is a redundancy module, which can be used to build 1+1 and N+1 redundant systems. It is equipped with two input channels which can be connected to 40A power supplies and one output which can carry nominal currents up to 80A.

The novelty of this redundancy module is the utilization of mosfets instead of diodes for the decoupling of the two input channels. This reduces the heat generation and the voltage drop between input and output. The redundancy module does not require an additional auxiliary voltage and is self-sufficient even in case of a short circuit across the output.

Due to the low power losses, the unit is very slender and only requires 46mm width on the DIN-rail. Large connection terminals allow for a safe and fast installation with a large international approval package. This unit is suitable for nearly every application.

### SHORT-FORM DATA

Input voltage	DC 24-28V	±30%
Input voltage range	16.8-36.4Vdc	
Input current	2x 0-40A 2x 40-65A	continuous for 5 seconds
Output current	0-80A 80-130A 130A	continuous for 5 seconds at cont. overload/ short circuit
Input to output voltage drop	typ. 50mV typ. 85mV typ. 95mV	input: 2x20A input: 1x40A input: 2x40A
Power losses	typ. 700mW typ. 2.7W typ. 3.6W typ. 8.3W	at no load input: 2x20A input: 1x40A input: 2x40A
Temperature range	-40°C to +70°C	operational, no de-rating req.
Dimensions	46x124x127mm*)	WxHxD

\*) plus 6mm in depth for the screw terminal

### ORDER NUMBERS

Redundancy Module	<b>YR80.241</b>	24-28V Standard unit
Accessory	ZM2.WALL	Wall/panel mount bracket
	ZM12.SIDE	Side mount bracket

### MARKINGS

