

# MB REDUNDANCY



Art. No.: 85496

Having the highest machine availability is an important subject. That's why power supply systems are often designed redundantly: with two power supply units. Murrelektronik's active redundancy module, MB Redundancy Balance, decouples two independent power supply units and generates a redundant 24V DC control voltage.

MB Redundancy Balance ensures an automatic 50:50 balancing of power between the two units. For example: if the required load current is 10A, this cabinet component ensures that both units supply 5A. If one of the two power supply units fails, the other will continue to work because it is decoupled. If this situation should occur you must make sure that your remaining power supply is sized to handle the entire load.

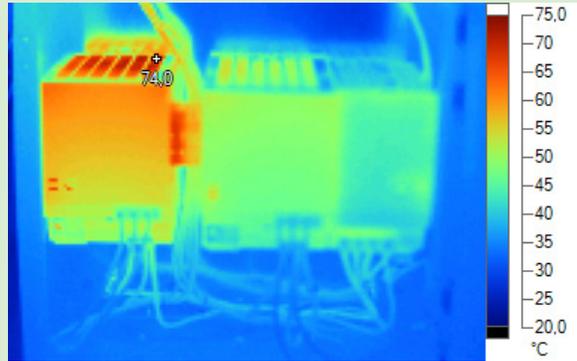
MB Redundancy Balance operates with an innovative technology based on MOSFET. Depending on the output current and the input voltage difference, the internal consumption of the modules is up to 87% less than with conventional diode modules.

To learn more, scan the QR code and watch the demonstration video on our YouTube channel.



## Test Data Collected By:

Murrelektronik GmbH  
Oppenweiler, Germany



## POWER SUPPLY REDUNDANCY

The two units on the left are "standard" competitive power supplies, the device on the far right is a standard diode decoupling module for selecting between 2 power supplies. You can see from the thermal difference that only the power supply on the left is working and the one on the right is on "standby".

Note - the temperature readings are approaching 75°C.

## ADVANTAGES TO CONSIDER

### MURRELEKTRONIK

- 50:50 Auto Load Balancing
- LEDs for channel-specific status indication
- Less heat generation
- Signal contact for input voltage and load distribution
- Full power ready when needed
- Compact size



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The two units on the left are Emparro power supplies, the device on the right is an MB Redundancy Balance with the 50/50 balancing function. By viewing the thermal image you can see that both power supplies are operating at almost the same temperature.

Note - the temperature reading is 58.9°C. Significantly lower than in the image above.