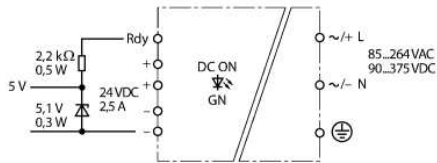


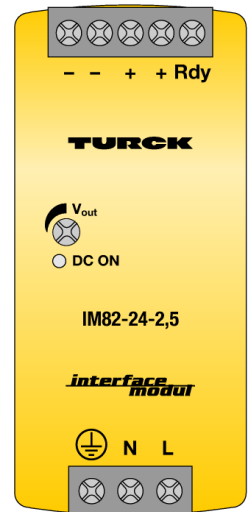
Switching power supply IM82-24-2,5



The IM82-24-2,5 power supply is designed for DC loads, especially for switching and monitoring devices of the TURCK interface module series IM, IME, IMB, IMS and IMC.

The power supply provides 24 VDC output voltage and 2.5 A output current. With the potentiometer V_{out} the output voltage can be adjusted in a range between 24...28 VDC. The device provides safety extra-low voltage (SELV) according to EN 60950.

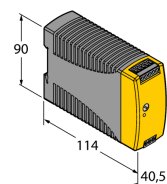
The power supply can be set to single or parallel operating mode (with decoupling diode).



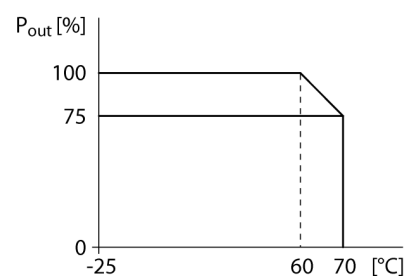
- Safety extra-low voltage SELV IEC/ EN 60950
- Output voltage adjustable 24...28 VDC
- Nominal current 2.5 A
- Single/parallel operation
- Surge protection
- Universal operating voltage
- Mains buffering up to 30 ms
- High efficiency
- Natural air cooling
- Power-good relay

Switching power supply IM82-24-2,5

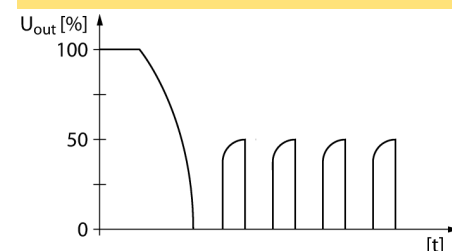
Dimensions



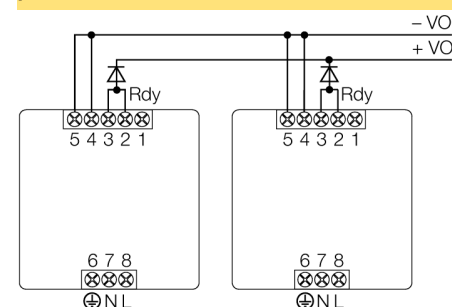
Derating



Short-circuit behaviour



parallel connection



Type code	IM82-24-2,5
Ident no.	7545041
Nominal voltage	Universal voltage supply unit
Operating voltage	85...264 VAC
Frequency	47...63 Hz
Operating voltage range	90...370 VDC
Power consumption	≤ 83 VA
Power loss, typical	≤ 8.8 W
Efficiency	89 %
External fuse	B5A
Internal fuse	T2A/250VAC
inrush current	Ui=115VAC, 20A; Ui=230VAC, 40A
Mains buffering	Ui=115VAC, 20ms; Ui= 230VAC, 30ms
Nominal voltage	24 V
Adjustment range	24...28V
Nominal current	2.5 A
Semiconductor output circuit(s)	1 x transistor (potential-free, short-circuit proof), > 18.8...19.6 V
Output circuits (digital)	≤ 24 VDC
Switching voltage	≤ 35 mA
Switching current per output	110-150%
Overload protection	125-138 %
Surge limiting	yes, via diodes
Parallel mode	50 mV
Ripple	2
Pollution degree	II
Surge category	Hiccup mode
Short-circuit behaviour	≤ 80000 Hz
Limit frequency	3.0 kV
Galvanic separation	
Test voltage	
Indication	
Operational readiness	green
Protection class	IP20
Ambient temperature	-25...+70 °C
Storage temperature	-25...+85°C
Derating	-2.5%/°C from 60°C
Relative humidity	≤ 95%
Dimensions	90x 40.5x 114 mm
Weight	401 g
Mounting instruction	For mounting on DIN rail
Housing material	Plastic
Electrical connection	Screw terminals
Terminal cross-section	0.2...2.0 mm ²
Tightening torque	0.5 Nm