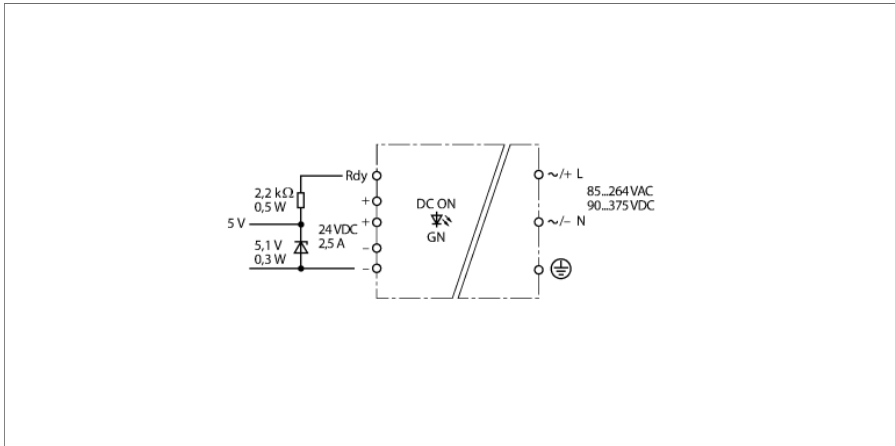


**Switching power supply  
IM82-24-2.5**

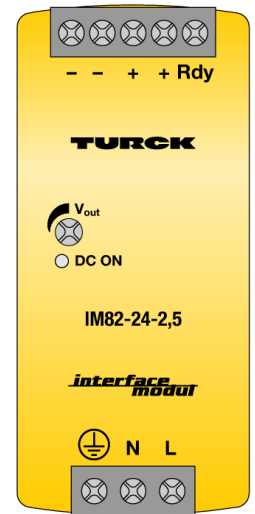


The IM82-24-2,5 power supply unit is designed for DC consumers, in particular for the supply of switching and monitoring devices of the TURCK IM, IME, IMS and IMC series.

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).

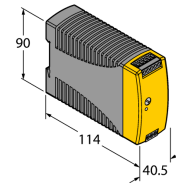
- Output voltage adjustable 24...28 VDC
- Nominal current 2.5 A
- Single/parallel operating mode
- Surge protection
- Universal operating voltage
- Mains failure bridging up to 30 ms
- High efficiency
- Natural air cooling
- cULus listed
- Safety extra-low voltage SELV IEC/ EN 60950



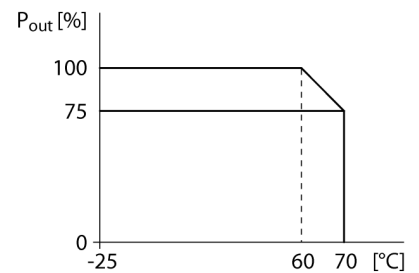
**Switching power supply**  
**IM82-24-2.5**

<b>Type designation</b>	IM82-24-2.5
Ident-No.	7545041
<b>Nominal voltage</b>	Universal voltage supply unit
Operating voltage	85...264 VAC
Frequency	47...63 Hz
Operating voltage range	90...375 VDC
Power consumption	≤ 83 VA
Power dissipation, typ.	≤ 8.8 W
Efficiency	89 %
External fuse	B5A
Internal fuse	T 2 A / 250 VAC
Inrush current	U <sub>i</sub> = 115 VAC, 20 A; U <sub>i</sub> = 230 VAC, 40 A
Mains buffering	U <sub>i</sub> = 115 VAC, 20 ms; U <sub>i</sub> = 230 VAC, 30 ms
<b>Nominal output voltage</b>	24 V
Adjustment range	24...28 V
Nominal current	2.5 A
Semiconductor output circuit(s)	
Output circuits (digital)	1 x transistor level 24 VDC
Switching voltage	≤ 24 VDC
Switching current per output	≤ 0.035 A
Overload protection	110-150 %
Surge limiting	125-138 %
Parallel mode	yes, via diodes
Ripple	50 mV
Pollution degree	2
Surge category	II
Short-circuit behaviour	Hiccup mode
<b>Limit frequency</b>	≤ 80000 Hz
<b>Galvanic isolation</b>	
Test voltage	3.0 kV
<b>Indication</b>	
Operational readiness	green
<b>Protection class</b>	IP20
Flammability class acc. to UL 94	V-0
Ambient temperature	-25...+70 °C
Storage temperature	-25...+85 °C
Derating	-2.5%/°C from 60°C
Relative humidity	≤ 95 %
Dimensions	90 x 40.5 x 114 mm
Weight	401 g
Mounting instructions	DIN rail (NS35)
Housing material	Plastic
Electrical connection	Screw terminals
Terminal cross-section	0.2...2.0 mm <sup>2</sup>
Tightening torque	0.5 Nm

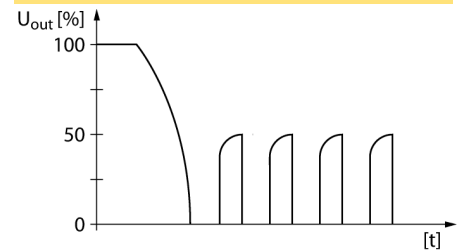
**Dimensions**



**Derating**



**Short-circuit behaviour**



**Parallel operation**

