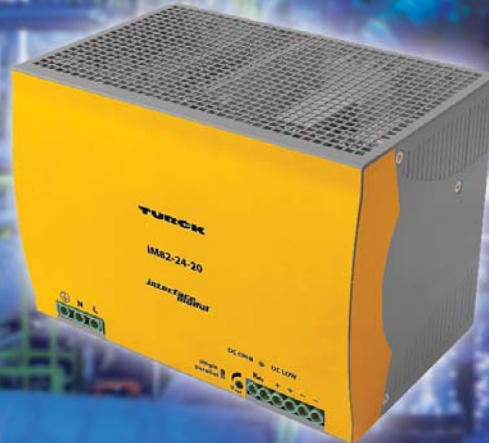


### SWITCHING POWER SUPPLIES

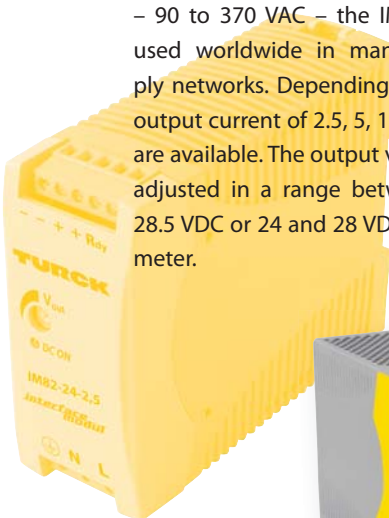


#### 24 V switching power supplies for industrial applications

The IM82-24 switching power supplies provide safety extra-low voltage (SELV) acc. to EN 60950. They supply electrical equipment as well as IM, IME, IMB, IMS and IMC interface modules with 24 VDC. Thanks to the universal voltage input – 90 to 370 VAC – the IM82-24 can be used worldwide in many power supply networks. Depending on the model, output current of 2.5, 5, 10 or 20 ampere are available. The output voltages can be adjusted in a range between 22.5 and 28.5 VDC or 24 and 28 VDC via potentiometer.

The IP20 protected IM84-24 series is especially designed for direct current supply in industrial applications. The devices convince through their high efficiency, they can be connected in parallel and are surge protected up to 150 %. A "power-good" relay ensures reliable functional checks in order to rule out voltage fluctuations and wire-break on the power supply side. Short-term power failures of up to 30 ms are automatically buffered by the devices.

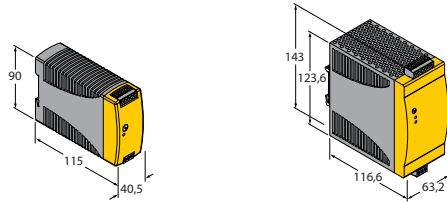
- Universal voltage input
- Adjustable output voltage
- "Power-good" relay
- LED display
- Parallel connection
- Broad temperature range
- Surge protection
- Mains buffering up to 30 ms
- SELV IEC/EN 60950, UL, cUL, Class 1 Div 2



***Sense it! Connect it! Bus it! Solve it!***

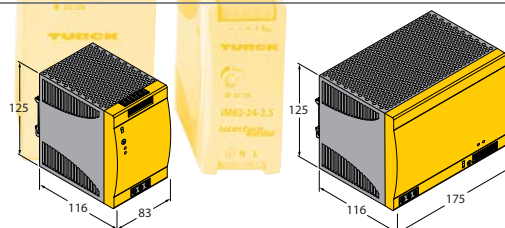
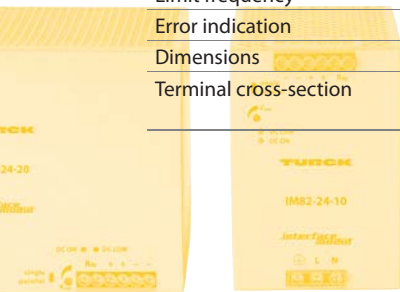
## Technical data

## Industrial Automation



Type code	IM82-24-2.5	IM82-24-5.0
Voltage range	85...264 VAC, 90...375 VDC	90...132 VAC, 186...264 VAC 210...370 VDC
Frequency	47...63 Hz	47...73 Hz
Inrush current	20 A (115 VAC)	48 A (230 VAC)
Mains buffering	$U_i = 115$ VAC, 20 ms; $U_i = 230$ VAC, 30 ms	$U_i = 115$ VAC, 25 ms; $U_i = 230$ VAC, 30 ms
Adjustment range	24...28 VDC	22.5... 28.5 VDC
Nominal current	2.5 A	5.0 A
Output circuits (digital)	1 x transistor	1 x relay (NO)
Switching voltage	$\leq 24$ VDC	$\leq 60$ VDC
Switching current per output	+ 35 mA	+ 300 mA
Surge protection	110...150 %	105... 145 %
Parallel mode	yes, via diods	yes, switch, max. 3 devices each with 90 % load current
Ripple	50 mV	50 mV
Short-circuit response	hiccup mode	Current limiting
Limit frequency	$\leq 80$ kHz	$\leq 80$ kHz
Error indication	-	red LED
Dimensions	90 x 40.5 x 115 mm	123.6 x 63.2 x 116.6 mm
Terminal cross-section	0.2...2 mm <sup>2</sup>	0.2...2 mm <sup>2</sup> , removable terminals

General technical data	
Nominal voltage	universal power supply unit
Nominal voltage	24V
Pollution degree	2
Surge category	II
Test voltage	3.0 kV
Operational readiness	green LED
Mounting instructions	mounting on DIN rail
Protection class	IP20
Ambient temperature	-25...+70 °C
Relative humidity	$\leq 95$ %
Storage temperature	-25...+85 °C
Electrical connection	screw terminals



Type code	IM82-24-10	IM82-24-20
Voltage range	90...132 VAC, 186...264 VAC 210...370 VDC	90...264 VAC, 120...370 VDC
Frequency	47...73 Hz	47...63 Hz
Inrush current	60 A (230 VAC)	50 A (230 VAC)
Mains buffering	$U_i = 115$ VAC, 25 ms; $U_i = 230$ VAC, 30 ms	$U_i = 115$ VAC, 30 ms; $U_i = 230$ VAC, 30 ms
Adjustment range	28.5...22.5 VDC	28.5...22.5 VDC
Nominal current	10 A	20 A
Output circuits (digital)	1 x relay (NO)	1 x relay (NO)
Switching voltage	$\leq 60$ VDC	$\leq 60$ VDC
Switching current per output	$\leq 300$ mA	$\leq 300$ mA
Surge protection	110...150 %	120... 140 %
Parallel mode	yes, switch, max.3 devices each with 90% load current	yes, switch, max. 3 devices each with 90 % load current
Ripple	100 mV	100 mV
Short-circuit response	Current limiting	Current limiting
Limit frequency	$\leq 40$ kHz	$\leq 60$ kHz
Error indication	red LED	red LED
Dimensions	125 x 83 x 116 mm	125 x 175 x 110.7 mm
Terminal cross-section	0,2...2 mm <sup>2</sup>	0.2...6 mm <sup>2</sup>



To get all product information, just scan the QR code with a smart-phone or webcam.

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