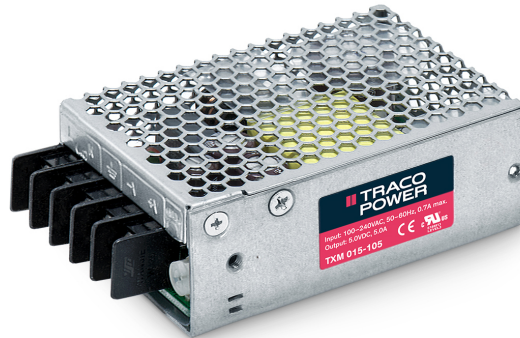


- Very compact metal cased power supplies
- High operating temperature up to 70°C
- Low no load power consumption <0.5W
- Screw terminal block
- No internal fan
- Universal AC input, full range
- Withstand 300 VAC surge input for 5 s
- Adjustable output voltage
- 3-year product warranty



The TXM 015 series of 15 Watt is a family of enclosed AC/DC power supplies designed for cost critical applications. With a low profile metal case and screw terminal block connections, they are easy to install in any equipment. There are five models of single output voltages from 3.3 VDC to 24 VDC. These power supplies have universal input and comply with European EMC standards and the Low Voltage Directive (LVD).

Models				
Order Code	Output Power max.	Output Voltage nom. (adjustable)	Output Current max.	Efficiency typ.
TXM 015-103	13.2 W	3.3 VDC (3.1 - 3.5 VDC)	4'000 mA	70 %
TXM 015-105	15 W	5 VDC (4.75 - 5.25 VDC)	3'000 mA	76 %
TXM 015-112	15.6 W	12 VDC (11.4 - 12.6 VDC)	1'300 mA	80 %
TXM 015-115	15 W	15 VDC (14.25 - 15.75 VDC)	1'000 mA	81 %
TXM 015-124	16.8 W	24 VDC (22.8 - 25.2 VDC)	700 mA	83 %

Input Specifications

Input Voltage	- AC Range	Operational Range: 85 - 264 VAC (Full Range) Rated Range: 100 - 240 VAC (Full Range)
	- DC Range	Operational Range: 120 - 375 VDC (Designed for, no certification) Polarity: irrelevant (Surge voltage (5 s max.): 300 VAC max.)
Input Frequency		Operational Range: 47 - 63 Hz Certified: 50/60 Hz
Input Current	- Full Load & $V_{in} = 115 \text{ VAC}$	700 mA max.
Power Consumption	- No load & $V_{in} = 230 \text{ VAC}$	500 mW max.
	- No load & $V_{in} = 115 \text{ VAC}$	500 mW max.
Input Inrush Current	- At 230 VAC	40 A max.
	- At 115 VAC	20 A max.
Recommended Input Fuse		(The need of an external fuse has to be assessed in the final application.)

Output Specifications

Output Voltage Adjustment		-5% to +10% (By trim potentiometer) Output power must not exceed rated power!
Voltage Set Accuracy		±3% max.
Regulation	- Input Variation ($V_{min} - V_{max}$)	1% max.
	- Load Variation (0 - 100%)	2% max.
Ripple and Noise (20 MHz Bandwidth)	3.3 VDC model:	50 mVp-p max. (w/ 0.1 μF // 10 μF)
	5 VDC model:	50 mVp-p max. (w/ 0.1 μF // 10 μF)
	12 VDC model:	120 mVp-p max. (w/ 0.1 μF // 10 μF)
	15 VDC model:	120 mVp-p max. (w/ 0.1 μF // 10 μF)
	24 VDC model:	120 mVp-p max. (w/ 0.1 μF // 10 μF)
Minimum Load		Not required
Temperature Coefficient		±0.03 %/K max.
Hold-up Time	- At 230 VAC	20 ms min.
	- At 115 VAC	10 ms min.
Start-up Time	- At 230 VAC	1'000 ms max.
	- At 115 VAC	2'000 ms max.
Start-up Overshoot Voltage		5% max.
Short Circuit Protection		Continuous, Automatic recovery
Output Current Limitation		105 - 150% of I_{out} max.
Overvoltage Protection		105 - 150% of V_{out} nom.
Transient Response	- Response Deviation	4% max. (75% to 100% Load Step)
	- Response Time	400 μs typ. (75% to 100% Load Step)

Safety Specifications

Safety Standards	- IT / Multimedia Equipment	EN 60950-1 EN 62368-1 IEC 60950-1 IEC 62368-1 UL 60950-1 UL 62368-1
	- Certification Documents	www.tracopower.com/overview/txm015
Protection Class		Class I (Prepared): Connection to PE
Pollution Degree		PD 2
Over Voltage Category		OVC II

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.

EMC Specifications

EMI Emissions	- Conducted Emissions	EN 55032 class B (internal filter)
	- Radiated Emissions	EN 55032 class B (internal filter)
	- Harmonic Current Emissions	EN 61000-3-2, class A
	- Voltage Fluctuations & Flicker	EN 61000-3-3
EMS Immunity	- Electrostatic Discharge	EN 55024 (IT Equipment)
		Air: EN 61000-4-2, ± 8 kV, perf. criteria B
		Contact: EN 61000-4-2, ± 4 kV, perf. criteria B
		EN 61000-4-3, 3 V/m, perf. criteria A
	- RF Electromagnetic Field	EN 61000-4-4, ± 1 kV, perf. criteria B
		L to L: EN 61000-4-5, ± 1 kV, perf. criteria B
		L to PE: EN 61000-4-5, ± 2 kV, perf. criteria B
	- Conducted RF Disturbances	EN 61000-4-6, 3 Vrms, perf. criteria A
		Continuous: EN 61000-4-8, 1 A/m, perf. criteria A
		230 VAC / 50 Hz: EN 61000-4-11
		30%, 25 periods, perf. criteria C
	- PF Magnetic Field	>95%, 0.5 periods, perf. criteria B
		>95%, 250 periods, perf. criteria C
	- Voltage Dips & Interruptions	

General Specifications

Relative Humidity		90% max. (non condensing)
Temperature Ranges	- Operating Temperature	–25°C to +70°C
	- Storage Temperature	–40°C to +85°C
Power Derating	- High Temperature	0.67 %/K above 50°C (3.3 VDC model) 1 %/K above 50°C (other models)
Cooling System		Natural convection (20 LFM)
Altitude During Operation		2'000 m max.
Switching Frequency		65 kHz typ. (PWM)
Insulation System		Reinforced Insulation
Working Voltage (rated)		264 VAC
Isolation Test Voltage	- Input to Output, 60 s	3'000 VDC
	- Input to Case or PE, 60 s	1'500 VAC
	- Output to Case or PE, 60 s	500 VAC
Creepage	- Input to Output	5.6 mm min.
Clearance	- Input to Output	5.6 mm min.
Isolation Resistance	- Input to Output, 500 VDC	100 MΩ min.
Leakage Current	- Earth Leakage Current	3500 µA max.
	- Touch Current	250 µA max.
Reliability	- Calculated MTBF	200'000 h (MIL-HDBK-217F, ground benign)
Housing Material		Aluminum
Housing Type		Metal Case
Mounting Type		Chassis Mount
Connection Type		Screw Terminal
Weight		180 g
Environmental Compliance	- REACH Declaration	www.tracopower.com/info/reach-declaration.pdf
		REACH SVHC list compliant
	- RoHS Declaration	REACH Annex XVII compliant
		www.tracopower.com/info/rohs-declaration.pdf
		Exemptions: 7a, 7c-I (RoHS exemptions refer to the component concentration only, not to the overall concentration in the product (O5A rule). The SCIP number is provided on request.)

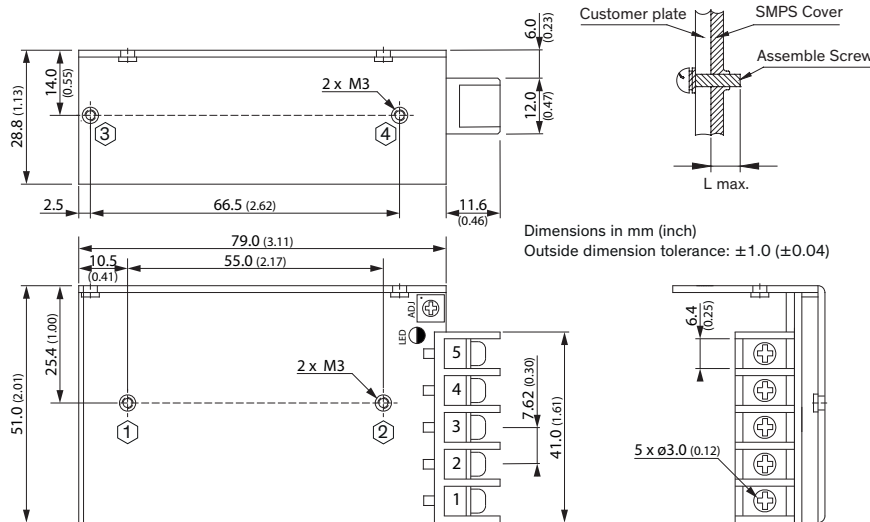
All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.

Supporting Documents

[Overview Link](#) (for additional Documents)

www.tracopower.com/overview/txm015

Outline Dimensions



Pin-Out	
Pin	Function
1	AC (L)
2	AC (N)
3	PE
4	- Vout
5	+ Vout

Screw Definition				
Installation Method	Position No.	Screw Size	L max.	Torque max.
Bottom Installation	1-2	M3	3 (0.12)	6.5 kgfcm
Side Installation	3-4	M3	3 (0.12)	6.5 kgfcm