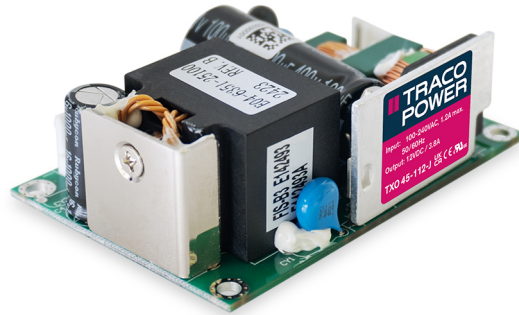


- Compact open frame power supply with pin connectors
- Universal input range 85 to 264 VAC
- Convection cooled (no-fan)
- Operating temperature range: -20°C to +70°C
- Internal EN55032 class B filter
- Short circuit, overvoltage and overload protection
- IEC/EN/UL 62368-1 safety approvals
- Compliance to EN 61000-3-2
- 3-year product warranty



UL 62368-1 IEC 62368-1

The TXO 45 is a compact 45 Watt AC/DC open frame module with reinforced I/O isolation designed for a wide range of cost sensitive applications. Excellent temperature behaviour allows full load operation up to +50°C with convection cooling and up to +70°C with forced air cooling. The TXO 45 series features short circuit protection, over current limitation and overvoltage protection and complies with European EMC standards and the Low Voltage Directive (LVD).

Models

Order Code	Output Power max.	Output Voltage nom.	Output Current max.	Efficiency typ.
TXO 45-112-J	45 W	12 VDC	3.8 A	85 %
TXO 45-115-J		15 VDC	3 A	85 %
TXO 45-124-J		24 VDC	1.9 A	85 %
TXO 45-148-J		48 VDC	940 mA	85 %

Options

TCI 130-DC	- Optional Cable: www.tracopower.com/overview/tci130-dc
TCI-AC1	- Optional Cable: www.tracopower.com/overview/tci-ac1
on demand (backorder with MOQ non stocking item)	- Optional model with 36 VDC and 1.25 A - Optional model with 56 VDC and 800 mA

Input Specifications

Input Voltage		Operational Range: 85 - 264 VAC (Full Range) Rated Range: 100 - 240 VAC (Full Range)
Input Frequency		Operational Range: 47 - 63 Hz Certified: 50/60 Hz
Power Consumption	- No load & Vin = 230 VAC - No load & Vin = 115 VAC	100 mW max. (Ready to meet ErP directive) 100 mW max.
Input Current	- Full load & Vin = 230 VAC - Full load & Vin = 115 VAC	600 mA max. 950 mA max.
Input Inrush Current	- At 230 VAC - At 115 VAC	80 A max. 40 A max.
Input Protection		T 3.15 A / 250 VAC (Internal Fuse in L)
Recommended Input Fuse		3'150 mA (slow blow) (The need of an external fuse has to be assessed in the final application.)

Output Specifications

Voltage Set Accuracy		±2% max.
Regulation	- Input Variation (Vmin - Vmax) - Load Variation (10 - 100%)	0.5% max. 3% max.
Ripple and Noise (20 MHz Bandwidth)		12 VDC model: 120 mVp-p typ. (w/ 10 µF Alu 0.1 µF MLCC) 15 VDC model: 150 mVp-p typ. (w/ 10 µF Alu 0.1 µF MLCC) 24 VDC model: 240 mVp-p typ. (w/ 10 µF Alu 0.1 µF MLCC) 36 VDC model: 360 mVp-p typ. (w/ 10 µF Alu 0.1 µF MLCC) 48 VDC model: 480 mVp-p typ. (w/ 10 µF Alu 0.1 µF MLCC) 56 VDC model: 560 mVp-p typ. (w/ 10 µF Alu 0.1 µF MLCC)
Capacitive Load		12 VDC model: 3'500 µF max. 15 VDC model: 2'500 µF max. 24 VDC model: 1'350 µF max. 36 VDC model: 800 µF max. 48 VDC model: 380 µF max. 56 VDC model: 270 µF max.
Minimum Load		Not required
Temperature Coefficient		±3 %/K max.
Hold-up Time	- At 230 VAC - At 115 VAC	60 ms min. 16 ms min.
Start-up Time	- At 230 VAC - At 115 VAC	1.5 s max. 3 s max.
Short Circuit Protection		Continuous, Automatic recovery
Output Current Limitation		110 - 200% of Iout max.
Overvoltage Protection		110 - 170% of Vout nom. (Latch mode)
Transient Response	- Response Deviation - Response Time	3% typ. / 5% max. (50% to 75% Load Step) 1 ms typ. / 1.5 ms max. (50% to 75% Load Step)

Safety Specifications

Standards	- IT / Multimedia Equipment - Certification Documents	EN 62368-1 IEC 62368-1 UL 62368-1 www.tracopower.com/overview/txo45
Protection Class		Class I & II (Prepared): Reinforced Insulation
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) FCC 47 Part 15 class B (internal filter)	
	- Radiated Emissions	EN 55032 class B (internal filter) FCC 47 Part 15 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 55035 (Multimedia) Air: EN 61000-4-2, ± 8 kV, perf. criteria A Contact: EN 61000-4-2, ± 4 kV, perf. criteria A EN 61000-4-3, 3 V/m, perf. criteria A EN 61000-4-4, ± 1 kV, perf. criteria A L to L: EN 61000-4-5, ± 1 kV, perf. criteria A 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 A >95%, 0.5 periods, perf. criteria A >95%, 250 periods, perf. criteria B	
	- RF Electromagnetic Field		
	- EFT (Burst) / Surge		
	- Conducted RF Disturbances		
	- PF Magnetic Field		
	- Voltage Dips & Interruptions		
	EMC / Environmental	- Certification Documents	www.tracopower.com/overview/txo45

General Specifications

Relative Humidity		95% max. (non condensing)
Temperature Ranges	- Operating Temperature	-20°C to +70°C
	- Approved Ambient Temp.	+70°C max. (for 50% load) +50°C max. (for 100% load)
	- Storage Temperature	-40°C to +85°C
Power Derating	- High Temperature	2.5 %/K above 50°C
	- Low Input Voltage	2 %/V below 90 VAC
	See application note:	www.tracopower.com/overview/txo45
Cooling System		Natural convection (20 LFM)
Altitude During Operation		2'000 m max.
Regulator Topology		Flyback Converter
Switching Frequency		65 kHz typ. (PWM)
Insulation System		Reinforced Insulation
Working Voltage (rated)		576 VAC
Isolation Test Voltage	- Input to Output, 60 s	3'000 VAC (4242 VDC)
Creepage	- Input to Output	6 mm min.
Clearance	- Input to Output	6 mm min.
Isolation Resistance	- Input to Output, 500 VDC	100 M Ω min.
Leakage Current	- Touch Current	100 μ A max.
(at 264 VAC / 60 Hz)		
Reliability	- Calculated MTBF	100'000 h (MIL-HDBK-217F, ground benign)
Washing Process		Not allowed
Environment	- Vibration	2.4 g, 3 axis, random waveform, 30 min
	- Mechanical Shock	20 g, 3 axis, 6 shocks
Housing Type		Open Frame
Mounting Type		Chassis Mount
Connection Type		Pin Connector
Weight		120 g

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

Environmental Compliance - REACH Declaration

www.tracopower.com/info/reach-declaration.pdf

- RoHS Declaration

REACH SVHC list compliant

REACH Annex XVII compliant

www.tracopower.com/info/rohs-declaration.pdf

Exemptions: 7a

(RoHS exemptions refer to the component concentration only, not to the overall concentration in the product (O5A rule))

- SCIP Reference Number

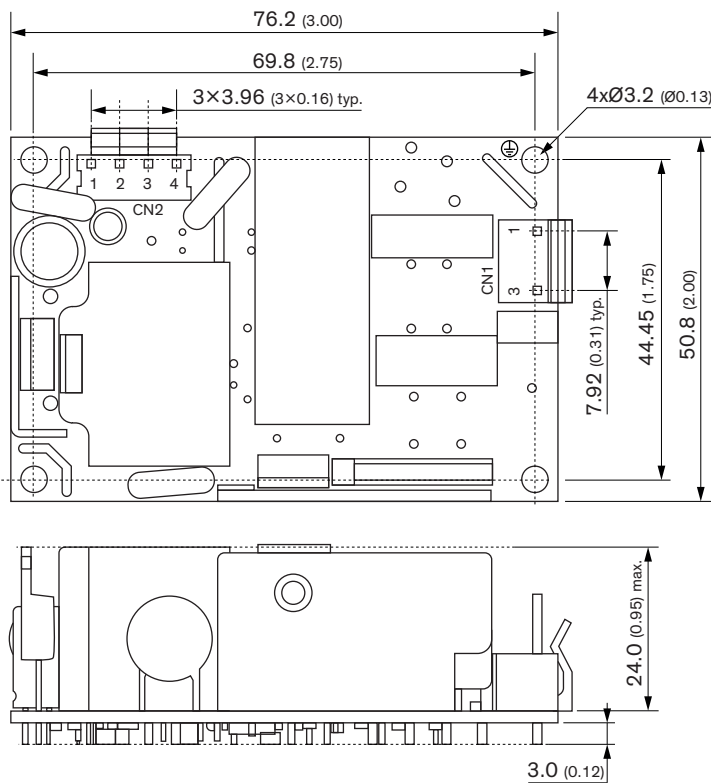
dae5192c-c3bb-43f9-bd6f-69b1ebc6e6e6

Supporting Documents

Overview Link (for additional Documents)

www.tracopower.com/overview/txo45

Outline Dimensions



Dimensions in mm (inch)

General tolerances: ± 0.5 (± 0.02)

Mounting screw tightening torque: 0.59 Nm max. (6.0 kgfcm max.)

Pin connectors

Input (CN1)		Output (CN2)	
Pin	Function	Pin	Function
1	AC (L)	1	-Vout
3	AC (N)	2	
		3	+Vout
		4	

Input: WAFER 3-1PIN(NC2)P
mates with 3.96mm JST B3P-VH or equivalent

Output: WAFER 4PIN P
mates with 3.96mm JST B4P-VH or equivalent

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Switching Power Supplies](#) category:

Click to view products by [TRACO Power](#) manufacturer:

Other Similar products are found below :

[70841011](#) [73-551-0005](#) [73-551-0048](#) [73-558-0015I](#) [EVS57-5R3/A](#) [FAS-002](#) [AAD600S-4-OP](#) [MS924](#) [HWS50A-5/RA](#) [KD0204](#) [9021](#)
[LDIN100150](#) [FAP-001](#) [FP80](#) [FRV7000G](#) [22929](#) [PS3E-F12F](#) [CQM1IA121](#) [LDIN5075](#) [432703037161](#) [VI-LUL-IU](#) [LPM000-BBAR-08](#)
[LPM000-BBAR-07](#) [08-30466-1055G](#) [DMB-EWG](#) [CQM1IPS01](#) [SP-300-5](#) [MAP40-S233](#) [CQM1-IPS02](#) [73-551-0024I](#) [VI-MUL-ES](#) [22829](#)
[08-30466-0028G](#) [96PSR-A460WOTH-2](#) [G06-Q01](#) [GHA300F-12-SNF](#) [MP650-2K2K](#) [MTA040009A](#) [FSA150024A](#) [VI-RUR22-EWXX](#)
[HLS30ZE-NT8](#) [UT1404-7](#) [ERP-350-12](#) [S8FSG01512C](#) [S8FSG03012C](#) [XPFM201A+](#) [S8FS-G15015C](#) [S8FS-G05005C](#) [S8FS-G03015C](#) [08-](#)
[30466-020WG](#)