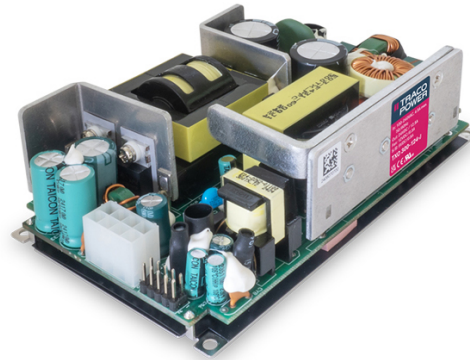


- Industrial AC/DC power supplies for cost sensitive applications
- I/O reinforced isolation 3000 VAC
- Operating temperature range -20°C to +70°C
- Protection class II prepared
- Internal EN 55032 class B filter
- Remote control
- Short circuit, overvoltage and overload protection
- Over temperature switch off
- 3-year product warranty



The TXO 300 is a series of AC/DC open frame power supplies with 300 Watt and a 3000 VAC reinforced isolation system. Our TXO line specifically focuses on providing cost efficient industrial power supplies. High efficiency of up to 88% allows a compact design and an operating temperature range of -20°C to +50°C without derating, while going up to +70°C with load derating. They feature remote control, come with an active power factor correction and EMC characteristics dedicated for applications in industrial/automation and test & measurement fields. It makes the products an ideal solution for various industrial and cost sensitive applications.

Models					
Order Code	Output Power max.	Output Voltage nom.	Output Current max. (Forced air cooling)	Output Current max. (Natural convection)	Efficiency typ.
TXO 300-112-J	300 W	12 VDC	25'000 mA	15'000 mA	88 %
TXO 300-115-J		15 VDC	20'000 mA	12'000 mA	88 %
TXO 300-124-J		24 VDC	12'500 mA	8'340 mA	88 %
TXO 300-148-J		48 VDC	6'250 mA	4'170 mA	88 %

Options	
on demand (backorder with MOQ non stocking item)	- Optional model with 36 VDC and 8'340 mA - Optional model with 56 VDC and 5'360 mA

Note - Total output power must not exceed 180 W (12/15 Vout models) or 200 W (other Vout models) when convection cooled

## Input Specifications

Input Voltage	- AC Range	Operational Range: <b>90 - 264 VAC</b> (Full Range) Rated Range: <b>100 - 240 VAC</b> (Full Range)
	- DC Range	Operational Range: <b>120 - 370 VDC</b> (Designed for, no certification) Polarity: <b>+DC: L / -DC: N</b>
Input Frequency		Operational Range: <b>47 - 63 Hz</b> Certified: <b>50/60 Hz</b>
Power Consumption	- No load & Vin = 230 VAC	<b>3'500 mW max.</b>
	- No load & Vin = 115 VAC	<b>5'000 mW max.</b>
Input Current	- Full load & Vin = 230 VAC	<b>2'000 mA max.</b>
	- Full load & Vin = 115 VAC	<b>4'500 mA max.</b>
Input Inrush Current	- At 230 VAC	<b>200 A max.</b>
	- At 115 VAC	<b>100 A max.</b>
Power Factor	- At 230 VAC	<b>0.9 min.</b> (Active Power Factor Correction)
	- At 115 VAC	<b>0.9 min.</b> (Active Power Factor Correction)
Input Protection		<b>5 A / 250 VAC</b> (Internal Fuse in L)
Recommended Input Fuse		<b>5'000 mA</b> (slow blow) (The need of an external fuse has to be assessed in the final application.)

## Output Specifications

Voltage Set Accuracy		<b>±2% max.</b> (main output) <b>±3% max.</b> (Standby output) <b>±6% max.</b> (Fan output)
Regulation	- Input Variation (Vmin - Vmax) - Load Variation (10 - 100%)	<b>0.5% max.</b> (incl. standby and fan output) <b>3% max.</b> (main output) <b>3% max.</b> (Standby output) <b>10% max.</b> (Fan output)
Ripple and Noise (20 MHz Bandwidth)		12 VDC model: <b>200 mVp-p max.</b> 15 VDC model: <b>220 mVp-p max.</b> 24 VDC model: <b>240 mVp-p max.</b> 48 VDC model: <b>480 mVp-p max.</b> 36 VDC model: <b>360 mVp-p max.</b> 56 VDC model: <b>560 mVp-p max.</b>
Capacitive Load		12 VDC model: <b>20'000 µF max.</b> 15 VDC model: <b>15'000 µF max.</b> 24 VDC model: <b>4'000 µF max.</b> 48 VDC model: <b>1'200 µF max.</b> 36 VDC model: <b>1'800 µF max.</b> 56 VDC model: <b>680 µF max.</b>
Minimum Load		<b>Not required</b>
Temperature Coefficient		<b>±0.05 %/K max.</b>
Hold-up Time	- At 230 VAC	<b>10 ms min.</b>
	- At 115 VAC	<b>10 ms min.</b>
Start-up Time	- At 230 VAC	<b>4'000 ms max.</b>
	- At 115 VAC	<b>4'000 ms max.</b>
Start-up Overshoot Voltage		<b>10% max.</b>
Short Circuit Protection		<b>Continuous, Automatic recovery</b>
Output Current Limitation		<b>110 - 180% of Iout max.</b>
Overvoltage Protection		<b>110 - 170% of Vout nom.</b>
Transient Response	- Response Deviation	<b>3% typ. / 5% max.</b> (50% to 75% Load Step)
	- Response Time	<b>1'000 µs typ. / 2'000 µs max.</b> (50% to 75% Load Step)

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

### Safety Specifications

Standards	- IT / Multimedia Equipment	EN 62368-1 IEC 62368-1 UL 62368-1
	- Certification Documents	<a href="http://www.tracopower.com/overview/txo300">www.tracopower.com/overview/txo300</a>
Protection Class		Class I & II (Prepared): Reinforced Insulation
Pollution Degree		PD 2
Over Voltage Category		OVC II

### 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	
	- RF Electromagnetic Field	EN 61000-4-3, 3 V/m, perf. criteria A	
	- EFT (Burst) / Surge	EN 61000-4-4, ±1 kV, perf. criteria A	
		L to L: EN 61000-4-5, ±1 kV, perf. criteria A	
		L to PE: EN 61000-4-5, ±2 kV, perf. criteria A	
	- Conducted RF Disturbances	EN 61000-4-6, 3 Vrms, perf. criteria A	
	- PF Magnetic Field	Continuous: EN 61000-4-8, 1 A/m, perf. criteria A	
	- Voltage Dips & Interruptions	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	
	EMC / Environmental	- Certification Documents	<a href="http://www.tracopower.com/overview/txo300">www.tracopower.com/overview/txo300</a>

### General Specifications

Relative Humidity		95% max. (non condensing)
Temperature Ranges	- Operating Temperature	-20°C to +70°C
	- Approved Ambient Temp.	+70°C max.
	- Storage Temperature	-40°C to +85°C
Power Derating	- High Temperature	2.5 %/K above 50°C
	- Low Input Voltage	1.5 %/V below 110 VAC (average)
	See application note:	<a href="http://www.tracopower.com/overview/txo300">www.tracopower.com/overview/txo300</a>
Over Temperature Protection Switch Off	- Protection Mode	103°C typ. / 110°C max. (Automatic recovery at 102°C typ.)
Cooling System	- Option 1	Forced air cooling (with external fan, 24 CFM)
	- Option 2	Natural convection (20 LFM)
Fan Power Source	- Characteristic	Constant fan speed (continuous)
	- Output Voltage	12 VDC
	- Output Current	300 mA max.
Standby Power Source	- Output Voltage	5 VDC
	- Output Current	500 mA max.
Remote Control	- Voltage Controlled Remote (passive = on)	Refers to 'Remote' and 'GND' Pin On: 2.5 to 6 VDC or open circuit Off: 0 to 1.0 VDC
Altitude During Operation		2'000 m max.
Regulator Topology		LLC Converter

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

Switching Frequency		63 - 282 kHz (PFM) (all models) 82 kHz typ. (PFM) (12/56 Vout models) 63 kHz typ. (PFM) (15 Vout model) 90 kHz typ. (PFM) (24 Vout model) 89 kHz typ. (PFM) (36 Vout model) 87 kHz typ. (PFM) (48 Vout model)
Insulation System		Reinforced Insulation
Working Voltage (rated)		496 VAC
Isolation Test Voltage	- Input to Output, 60 s - Input to Case or PE, 60 s - Output to Case or PE, 60 s	3'000 VAC 2'500 VDC 500 VDC
Creepage	- Input to Output - Input to Case or PE - Output to Case or PE	6 mm min. 3 mm min. 0.9 mm min.
Clearance	- Input to Output - Input to Case or PE - Output to Case or PE	6 mm min. 3 mm min. 0.9 mm min.
Isolation Resistance	- Input to Output, 500 VDC	100 MΩ min.
Isolation Capacitance	- Input to Output, 100 kHz, 1 V	1'940 pF typ. / 2'328 pF max.
Leakage Current (264 VAC / 60 Hz)	- Earth Leakage Current - Touch Current	300 μA max. 300 μA max.
Distance Through Isolation		0.4 mm
Reliability	- Calculated MTBF	100'000 h (MIL-HDBK-217F, ground benign)
Washing Process		Not allowed
Environment	- Vibration  - Mechanical Shock	2.4 g, 3 axis, random waveform, 50-500 Hz, 10 min/axis  20 g, 3 axis, half sine, 10 ms, total 6 shocks
Housing Type		Open Frame
Mounting Type		Chassis Mount
Connection Type		Pin Connector
Weight		420 g
Power OK Signal	- Trigger Threshold   - Power OK - Power Off  - Pin Specifications	Voltage source output  12 VDC model: 11.16 - 11.93 VDC 15 VDC model: 13.92 - 14.88 VDC 24 VDC model: 22.35 - 23.89 VDC 48 VDC model: 44.54 - 47.61 VDC 36 VDC model: 33.52 - 35.84 VDC 56 VDC model: 52.19 - 55.79 VDC  High level Low level (Refers to 'PG' and 'GND' Pin) Sink current: 10 mA max.
Sense Function		10% max. of Vout nom.  (If sense function is not used, sense pins should be left open/floating.)
Environmental Compliance	- REACH Declaration  - RoHS Declaration  - SCIP Reference Number	<a href="http://www.tracopower.com/info/reach-declaration.pdf">www.tracopower.com/info/reach-declaration.pdf</a>  REACH SVHC list compliant REACH Annex XVII compliant Exemptions: 7a (RoHS exemptions refer to the component concentration only, not to the overall concentration in the product (O5A rule)) a03bab39-4fd8-4875-be2d-53bddc721746

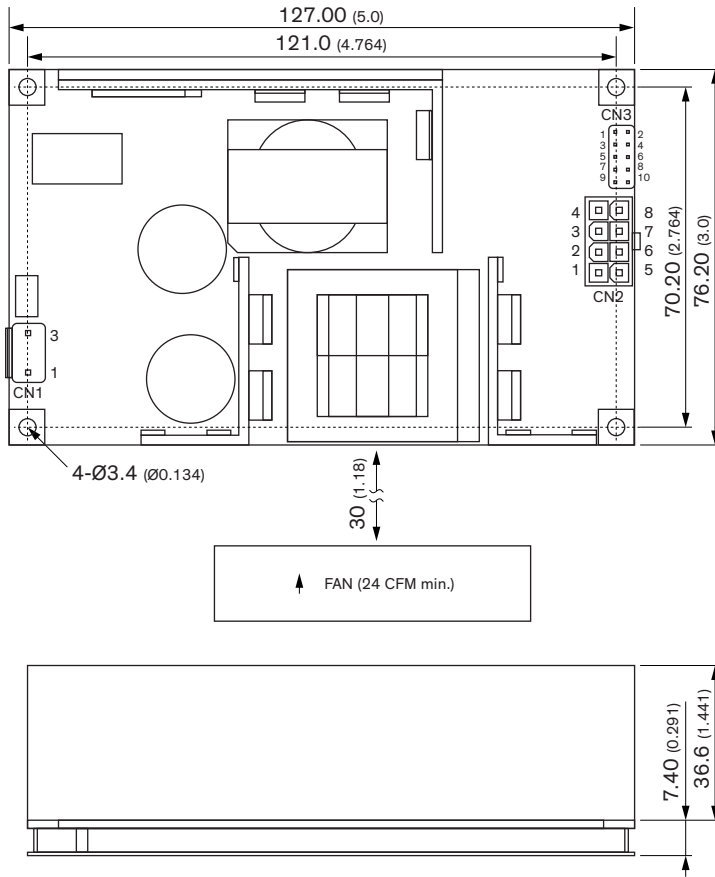
## Supporting Documents

Overview Link (for additional Documents)

[www.tracopower.com/overview/txo300](http://www.tracopower.com/overview/txo300)

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

**Outline Dimensions**



Dimensions in mm (inch)

**Pin connectors**

Input (CN1)		Output (CN2)	
Pin	Function	Pin	Function
1	AC (N)	1,2,5,6	-Vout
3	AC (L)	3,4,7,8	+Vout

AUX (CN4)			
Pin	Function	Pin	Function
1	+Fan	2	GND
3	+Standby	4	
5	+Remote	6	
7	Power Good	8	
9	+Sense	10	

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

**Output:** Molex 39-28-1163 Mini-Fit Jr. Vertical Header, 2x4 pins, 4.20mm pitch

**AUX:** Pin header 2x5 pins, 2.54mm pitch mates with JST RF

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