TRACO[®] POWER

Industrial Power Supplies

TSP-Series

Innovative and Powerful Features!

- Rugged metal case for harsh industrial environments
- Shock and vibration proof
- Worlwide Safety approval package.
- ATEX certification tested in accordance to IECEX (opt. EX)
- Model TSP 090-124N meets NEC class 2
- Industrial operating temperature range: -25°C to +70°C
- Adjustable output voltage
- Protection against short-circuit, overvoltage and over-temperature
- Power OK signal, Remote On/Off
- Wall mounting (opt.)
- 3-year product warranty

Function Modules (see page 5)





The TSP series comprises high performance DIN-rail mount power supplies designed for reliable operation under difficult factory floor conditions. High immunity against electrical disturbances and rugged metal casing make these modules the best choice to power sensitive loads in industrial process control systems, machine tools or other demanding industrial applications. They provide a DC-OK signal and external shut down function. Detachable screw terminal blocks make the connection easy.

This power supply line is accompanied by a wide range of function modules for reliable system solutions:

Redundancy modules for true current sharing in parallel operation and for redundant systems.

Battery controller modules to configure high reliable UPS systems for 12, 24 and 48 VDC. Selection of battery packs available.

Buffer modules for protection against short time AC power loss. Maintenance free! No batteries required.

Models			
Order Code	Output Power	**Output Voltage	***Output Current
	(Pmax)	(Vnom)	(Imax)
TSP 070-112*	72 W	12 VDC	6.0 A
TSP 090-124*	90 W	24 VDC	3.75 A
TSP 090-124N	90 W	24 VDC	3.75 A
TSP 090-148*	96 W	48 VDC	2.0 A
TSP 140-112*	144 W	12 VDC	12.0 A
TSP 180-124*	180 W	24 VDC	7.5 A
TSP 180-148*	192 W	48 VDC	4.0 A
TSP 360-124*	360 W	24 VDC	15.0 A
TSP 360-148*		48 VDC	7.5 A
TSP 600-124*		24 VDC	25.0 A
TSP 600-136	600 W	36 VDC	16.5 A
TSP 600-148*		48 VDC	12.5 A

* For ATEX compliant models add appendix -EX to order code.

** Output voltage adjustable 12–14 VDC, 24–28 VDC and 48–56VDC

*** Max. current at nominal output voltage and operating temperature up to +40°C max.

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Industrial Power Supplies TSP Series 70-600 Watt

Input Specifications				
Input voltage range TSP 070/090		85 - 264 VAC universal input		
other models:		85 - 132 / 187 - 264 VAC autoselect		
ouput current aerating at operation below TOU VAC			3 = 3 = 3 = 3	
Harmonic limits			EN 61000-3-2 Class & Ifor limited output nowork	
			20 ms	
		115 VAC	10 ms at full load, 20 ms at 66% load	
Inrush current			115 VAC 230 VAC	
		TSP 070/090	< 12 A < 20 A	
		ISP 140/180 TSP 360	< 13 A < 25 A	
		TSP 600	< 25 A < 30 A	
Recommended circuit break	er, TS	SP 070/090/140/180	6.0 – 16.0 A	
characteristic B	,	TSP 360	10.0 – 16.0 A	
		TSP 600	16.0 – 25.0 A	
Etticiency			87 % typ.	
Output Specifications	S			
Output voltage adj. range		12 VDC models:	12 – 14 VDC	
		24 VDC models: 36 VDC model:	24 - 20 VDC 36 - 42 VDC	
		48 VDC models:	48 – 56 VDC	
			At output voltage higher than nominal output voltage	ge
			max. output current has to be reduced accordingly	, in
Pagulation	loout vorietier		order not to exceed max. output power.	
regulation	- Load variation (10–10	00 %)	0.5 % max.	
Ripple and Noise (20MHz bandwidth)			100 mV pk-pk typ. (200 mV pk-pk max. at Imax)	
Electronic short circuit protection			current limitation at Imax. constant current, automatic recovery	
Output overvoltage protection 12 VDC models:		20 V		
		24 VDC models:	35 V 43 V	
		48 VDC models:	43 V 60 V	
Overload protection			electronic overload protection	
Overtemperature protection	I		switch off at overtemperature, automatic restart	
Power back immunity		12 VDC models:	16 V	
		24 VDC models:	35 V	
		30 VDC model: 48 VDC models	40 v 63 V	
Status indicator			dual color LED (green: DC ok, red: DC off)	
Power OK signal	– trigger threshold:	12 VDC models:	9 – 11 V	
-		24 VDC models:	18 – 22 V	
		36 VDC model:	27 – 34 V	
	– active output signal.	12 VDC models:	30 - 40 v 11.0 V ±1.0 V	
	(reference to -Vout)	.2 .2 0 models.	(20 mA max. for TSP 070, 40 mA max. for TSP 14	40)
		24 VDC models:	22.0 V ±2.0V / 20 mA max.	
		36 VDC model.	(10 mA max. tor ISP 090, 20mA max. tor others)	
		48 VDC models	$44.0 V \pm 4.0 V / 15 mA max.$	
	– relay output		DC OK = contact closed	
			rated: 30 VDC/1.0 A for 12/24 VDC models	
			rated: 30 VDC/2.0 A for 36 VDC model	
			NUIEU. 40 VDC/ V.J A IUI 40 VDC IIIUUEIS	