## **TPS3000 Series**

## 3200W 3 Phase Input Industrial Power Supplies

## **Features**

- ◆ 400/440/480 VAC (Nominal) 3 Phase Delta or Wye
- ◆ Fully Regulated, Wide Range Adjustable Output
- ◆ Voltage and Current Programming
- ◆ -40°C (start up) to +70°C operation
- ♦ >92% Efficiency
- ◆ PMBus™ Communication
- ◆ Built in ORing FETs & Active I share for parallel operation
- ◆ Fully Featured

## **Key Market Segments & Applications**













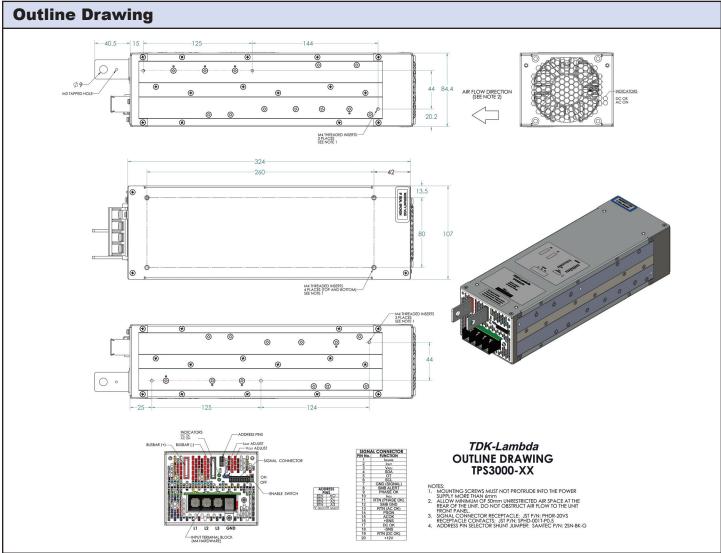


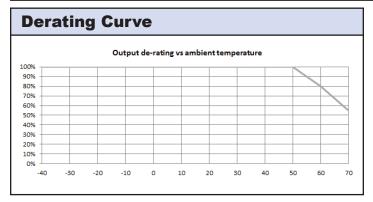
<b>Specif</b>	ications
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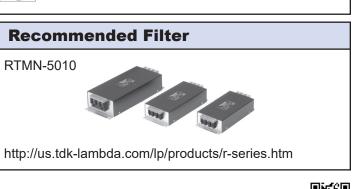
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Model		TPS3000-24	TPS3000-48			
Input Voltage (47-63Hz)	VAC	350 - 528VAC, Delta or Wye 3 phase				
Input Current	A	6A per phase ma	ax, steady state			
Inrush Current	Α	<15A per phase (excluding initial spike charging EMI capacitors lasting <2ms)				
Power Factor Correction	-	0.93 typical				
Efficiency (1)	%	92.5%				
Ripple & Noise (Pk-Pk) (max) (2)	mV	130mV	260mV			
Line Regulation	%	<0.25%				
Load Regulation	%	<0.	5%			
Overcurrent Protection	-	Adjustable (70-105	% of rated current)			
Overvoltage Protection	V	115% of setpoint (tracking)				
Thermal Protection	-	Internal thermostat. Automatic reset				
Hold Up Time	ms	>10mS at 80% of rated current, nominal input/output voltage				
Remote Sense	-	Compensates for a to	otal of 1V cable drop			
Dropped Phase (2)	-	Open collector signal; off during normal operation, strobing during dropped phase state				
Remote On / Off	-	Selectable logic - Enable or Inhibit				
AC Fail Signal	-	Open Collector, ON when AC is above 340VAC and unit is enabled				
DC Good Signal	-	Open Collector, ON when output is above 85 to 95% of setpoint (tracking)				
Remote Adjust	-	0 - 5V adjusts output from V max to V min				
Parallel Connection	-	Single wire current share, up to 8 units. Built in ORing FET				
Standby Voltage	-	11.2 - 12.5V, 0.3A				
Operating Temperature	°C	-40 to +70°C, see derating curve				
		(20 min warm up needed for <-10°C)				
Storage Temperature	°C	-40 to +85°C				
Temperature Coefficient	%/°C	0.02%/°C				
Humidity (non condensing)	%RH	10 - 90%RH				
Cooling	-	Internal variable speed fan				
Withstand Voltage	VAC	Input - Ground 2,000VAC, Input - Output 3,000VAC, Output - Ground 500VAC				
Isolation Resistance	МΩ	>100MΩ (25deg, 70%RH)				
Vibration	-	Designed to meet MIL-STD-810F, Method 514.5, Proc I, Category 4, 10				
Shock	-	Designed to meet MIL-STD-810F, Method 516.5, Procedure I, IV & VI				
Safety Agency Certifications	-	IEC/UL/CSA/EN62368-1, 60950-1, CE Mark				
Voltage Dips	-	SEMI F47-0706				
Leakage Current	mA	<3mA				
Conducted & Radiated Emissions	-	EN55022 Class A, FCC part 15 Class-A				
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8, -11				
Altitude	m	4,000m				
Weight	kg	3.5				
Size (W x H x D)	mm	107 x 84.4 x 324mm (excluding output busbars)				
Warranty	yrs	Three Years				

Specifications								
Model	Nominal Voltage (V)	Adjust. Range (V) (4)	Rated Current (A)	Maximum (3) Current (A)	Rated Power (W)	Maximum (3) Power (W)		
TPS3000-24	24	19.2 - 28.5	125	133.3	3000	3200		
TPS3000-48	48	38.4 - 56.5	66.7	66.7	3200	3200		

- (3) Rating at nominal output voltage only.
- (4) A minimum load of 0.5A is required to maintain regulation and ripple spec throughout the output voltage adjustment range.







For Additional Information, please visit https://product.tdk.com/en/power/

