

Power Supply Product

3200W 3-phase Delta or Wye AC Input Industrial Power Supply Series Extended with 48V Model

June 2017

TDK Corporation announces the introduction of a 3,200W 48V model to the TPS power supply series. The 2U high product delivers 3200W output power (44V at 133.3A), and operates from a wide range Delta or Wye 350 - 528Vac three phase input. The 48V model is ideal for use in many applications including test and measurement equipment, semiconductor fabrication, industrial printers and lasers. The high voltage, three-phase input avoids the requirement for step down transformers and assists phase load current balancing.

The TPS3000-48 is fully featured with isolated AC Fail, DC Good and dropped phase signals, remote on/off, remote sense and a 12V 0.3A standby supply. A PMBus™ communications interface allows remote monitoring of the output voltage, output current, internal temperature, status signals and fan speed. In addition, the output voltage, over current limit and the remote on/off can be programmed by the PMBus™. The output voltage can also be adjusted from 38.4 – 56.5V and the current limit point by 70-105% using front panel potentiometers or an analog 0-5Vdc voltage. Up to eight units can be connected in parallel for higher power and internal ORing FETs allow redundant operation.

The 92.5% efficient unit can operate at full load in ambient temperatures of up to 50°C, and deliver up to 55% load at 70°C. Cooling is provided by an internal temperature controlled fan to reduce acoustical noise. The case measures 107 x 84.4 x 324mm, making it suitable for 2U high racking systems and the weight is just 2.7kg.

The power supply has 3kVac input to output, 2kVac input to ground and 500Vac output to ground isolation with all models certified to UL/CSA 60950-1, IEC/EN 60950-1 and carrying the CE mark for the Low Voltage and RoHS2 Directives. The TPS3000 models comply with EN55032-A conducted and radiated emissions, and meets the IEC 61000-3-2 harmonics, IEC 61000-4 immunity and SEMI F47-0706 standards.

More information can be obtained at the following TDK-Lambda Americas website, <http://www.us.tdk-lambda.com/lp/products/tps-series.htm>, or by calling 800-LAMBDA-4. Product availability for the TPS3000-48 power supply can be found via the link to TDK-Lambda's distributor network (see "Check Distributor Stock") at <http://www.us.tdk-lambda.com/lp/>.

Major applications

Test and measurement equipment, semiconductor fabrication, printers and lasers

Main features and benefits

- Suitable for 400/440/480Vac 3-phase Delta and Wye inputs
- Compact 2U high package size
- Fully featured
- 92.5% efficient
- PMBus™ communications interface for remote programming and monitoring

Major specifications

Model		TPS3000-48
Input voltage range	Vac	350 - 528VAC, Delta or Wye 3 phase
Output voltage	Vdc	48V, adjustable from 38.4 – 56.5V
Maximum output power	W	3200W
Efficiency 400/480VAC input	%	92.5%
Communications	-	PMBus™ interface
Safety Certifications	-	IEC / UL / CSA / EN 60950-1
Size (W x H x L)	mm	107 x 84.4 x 324mm (excluding output busbars)
Warranty	-	Three years

About TDK Corporation

TDK Corporation is a leading electronics company based in Tokyo, Japan. It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's portfolio includes passive components, such as ceramic, aluminum electrolytic and film capacitors, ferrites and inductors, high-frequency products, and piezo and protection components, as well as sensors and sensor systems and power supplies. These products are marketed under the product brands TDK, EPCOS, Micronas, Tronics and TDK-Lambda. TDK's further main product groups include magnetic application products, energy devices, and flash memory application devices. TDK focuses on demanding markets in the areas of information and communication technology and automotive, industrial and consumer electronics. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2017, TDK posted total sales of USD 10.5 billion and employed about 100,000 people worldwide.

About TDK-Lambda Corporation

TDK-Lambda Corporation, a group company of TDK Corporation, is a leading global power supply company providing highly reliable power supplies for industrial equipment worldwide. TDK-Lambda Corporation meets the various needs of customers with our entire range of activities, from research and

development through to manufacturing, sales, and service with bases in five key areas, covering Japan, Europe, America, China, and Asia.

For more details, please pay a visit to <http://www.tdk-lambda.com/>

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