

Power Supply Product

30W & 60W Medical / ITE 2x3" Class I & II Power Supplies Meet Curve B Radiated and Conducted Emissions

December 2017

TDK Corporation announces the introduction of the CUS30M and CUS60M series of AC-DC power supplies, rated at 30W and 60W output power. Certified to medical and ITE standards for Class I and II operation, the products meet both curve B radiated and conducted emissions without the need for additional filtering or shielding. The CUS30M and 60M target applications include medical, home healthcare, test and measurement, broadcast, industrial controls and household appliances.

Initially available with 12V, 24V and 48V outputs, (5V, 15V, 18V and 36V models to follow), the industry standard 2" x 3" footprint power supplies can accept an 85 to 265Vac input and have operating efficiencies up to 90%. Off-load power consumption is <0.3W for the CUS30M and <0.5W for the CUS60M. The operating ambient temperature range is -20 to +70°C (-30°C start up), derating to 50% load at 70°C.

Input to output isolation is 4kVac (2 x MoPP), input to ground 2kVac (1 x MoPP) and output to ground 1.5kVac (1 x MoPP) making the series suitable for B and BF rated medical equipment. Touch current for the CUS30M is a maximum of 100µA and 60µA for the CUS60M, with leakage current less than 250µA and 200µA respectively at 265Vac 60Hz. 5,000m is the maximum operating, transportation and storage altitude.

All the power supplies are certified to IEC/EN/ES/CSA 60601-1 and IEC/EN/UL/CSA 60950-1 with CE marking for the Low Voltage, EMC and RoHS2 Directives. Models have also been evaluated for Class 2 limits in accordance with UL 1310 and the household and similar electrical appliances standard IEC 60335-1. The series is compliant to EN 55011-B and EN 55032-B (radiated and conducted) and meet the EN 61000-3-2 harmonics, IEC 60601-1-2 Edition 4 and IEC 61000-4 immunity standards.

More information can be obtained at the following TDK-Lambda Americas website, <http://www.us.tdk-lambda.com/lp/products/cus-m-series.htm>, or by calling 800-LAMBDA-4. Product availability for the CUS30M and CUS60M power supplies can be found via the link to TDK-Lambda's distributor network (see "Check Distributor Stock to Buy") at <http://www.us.tdk-lambda.com/lp/>.

Major applications

Medical, home healthcare, test and measurement, broadcast, industrial controls and household appliances

Main features and benefits

- High Efficiency, up to 90%
- Industry Standard 2" x 3" Footprint
- Class I and II Operation
- Suitable for B and BF rated equipment

Major specifications

Model		CUS30M	CUS60M
Input voltage range	Vac	85 to 265Vac	
Output voltages	Vdc	12, 24, 48V with 5, 15, 18, and 36V to follow	
Output power	W	30W	60W
Operating temperature	°C	-20 (-30°C start-up) to +70°C. (Derating to 50% load 70°C)	
Safety	-	IEC/EN/ES/CSA 60601-1, IEC/EN/UL/CSA 60950-1, IEC 60335-1	
Size (W x L x H)	mm	50.8 x 76.2 x 24.2 mm	50.8 x 76.2 x 26.7 mm
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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