

Power Supply Product

Board Mount AC-DC Power Supplies have Wide Operating Temperature Range

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TDK Corporation announces the introduction of the TDK-Lambda KWS-A board mount AC-DC power supplies. Capable of starting up at -40°C, the convection cooled units will operate in ambient temperatures of up to 85°C and are rated for full load over a -10 to 45/55°C range (model dependent). The KWS-A series is designed for use in control and monitoring equipment in addition to a variety of industrial applications.

The encapsulated series comprises of four power levels and four output voltages - 5V, 12V, 15V and 24V. The 5W and 10W models measure 38.1 x 25.4 x 21.5mm, the 15W 50.8 x 25.4 x 24mm and the 25W models 63.5 x 25.4 x 29mm. Rated for Class II operation, the KWS-A requires no earth ground connection.

The KWS-A series accepts an input voltage of 85 to 265Vac, 47 - 440Hz, and requires no external fuses or electrolytic capacitors. Efficiencies are up to 88% and have an off-load power draw of less than 0.5W.

Input to output isolation is 3kVAC, 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. All units meet EN55011/EN55022-A and FCC-A conducted & radiated emissions (class B with the addition of a small X-capacitor) and IEC 61000-6-2 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/kwsa-series.htm>, or by calling 800-LAMBDA-4. Product availability for the KWS-A power supplies 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

Control and monitoring equipment, traffic signaling, semiconductor fabrication, communications and NC machine tools.

Main features and benefits

- Wide temperature range
- Compact package sizes
- Class II operation
- High efficiency and low off-load power draw

Major specifications

Model		KWS5A	KWS10A	KWS15A	KWS25A
Input voltage range	-	85 – 265Vac, 47-440Hz			
Output voltages	Vdc	5, 12, 15 and 24			
Maximum output power	W	5	10	15	25
Efficiency (24V model, 200Vac i/p)	%	77	84	85	88
Mounting type	-	Board mount			
Safety Certifications	-	IEC / UL / CSA / EN 60950-1			
Size (L x W x H)	mm	38.1 x 25.4 x 21.5		50.8 x 25.4 x 24	63.5 x 25.4 x 29
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 electronic components, modules and systems* which are marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial 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 2015, TDK posted total sales of USD 9.0 billion and employed about 88,000 people worldwide.

* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

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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