

## Power Supply Product

# 40-65W 2 x 4" Medical and ITE Power Supplies Have Very Low Off-load Power Consumption

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June 2017

TDK Corporation announces the introduction of the CSS65A series of AC-DC power supplies with an off-load power consumption of less than 75mW. Packaged in the industry standard 2" x 4" footprint with a low height of 1.08", the series is suitable for many medical, clinical, test and measurement, process control, broadcast and communications applications.

The CSS65A accepts a 90 to 264Vac input and is available with 5, 12, 15, 19, 24, 28, 48 and 54V outputs. The output power level is 40W for the 5V output and 65W for the 12 to 54V outputs. Remote sense is included, enabling the power supplies to compensate for load cable voltage drops.

A choice of Molex or JST connectors is available for the input and output connectors. Average efficiency is 89% (86% for the 5V) and the units can operate at full load in ambient temperatures of up to 50°C, and deliver up to 50% load at 70°C without the need for external airflow. Leakage current is less than 100µA at 264Vac 63Hz.

The power supply has 4kVac input to output (2 x MoPPs), 1.5kVac (1 x MoPP) input to ground and 1.5kVac (1 x MoPP) output to ground isolation. All models are certified to ANSI / AAMI ES 60601-1, IEC / EN 60601-1, UL / CSA / IEC / EN 60950-1 and carry the CE mark for the Low Voltage and RoHS2 Directives. The CSS65A models comply with EN 55011-B and FCC-B conducted and radiated emissions, and meets the IEC 61000-3-2 harmonics, IEC 61000-4 and EN 60601-1-2 4<sup>th</sup> edition immunity standards.

More information can be obtained at the following TDK-Lambda Americas website, <http://www.us.tdk-lambda.com/lp/products/css-series.htm>, or by calling 800-LAMBDA-4. Product availability for the CSS65A 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/>.

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### Major applications

Medical, clinical, test and measurement, process control, broadcast and communications applications

### Main features and benefits

- Low profile, industry standard footprint
- Medical and ITE safety certifications
- Remote sense
- <75mW off-load power consumption

## Major specifications

Model		CSS65A
Input voltage range	Vac	90 – 264Vac
Output voltages	Vdc	5, 12, 15, 19, 24, 28, 48 and 54V
Output power	W	5V: 40W, 12-54V: 65W
Average Efficiency	%	5V: 86%, 12-54V: 89%
Safety Certifications	-	IEC / ES / EN 60601-1, IEC / UL / CSA / EN 60950-1
Size (W x L x H)	mm	50.4 x 101.6 x 27.5 mm
Warranty	-	Three years

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## 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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