

Power Supply Product : **600W Model Added to 200 - 425VDC Input DC-DC Converter Series (PH-A Series)**

- Industry Smallest in its class with high power density and ultra-small dimensions (1/2 brick size)
- Conducted cooling in a board mount type
- Compliance to EN62477-1 OVC III Safety Standards (overvoltage category III)

December 20, 2019

TDK Corporation announces the introduction of 600W model to the TDK-Lambda PH-A series of DC-DC power modules with high voltage DC input. PH-A Series range now include 50, 75, 100, 300 and 600W outputs. 600W model will be available for sales from January 2020 through TDK-Lambda Corporation.

PH600A280 designed with TDK's original transformer configuration (patent pending), optimized mechanism design, and achieved industry's 1/2 brick size, smallest design in its class (50% smaller than TDK's current products). Power conversion efficiency is also improved 2%. This will contribute to the miniaturization and energy saving at customer devices.

Like the 300W models, 600W model has also been certified to meet the EN62477-1 Safety Standards (overvoltage category III). This will be beneficial to the customer for obtaining IEC60204-1 International Machine Safety Standards. By having PH600A280, Insulation transformer may be removed from the distribution board. This will help customer devices be smaller, lighter and lower in total cost.

The customer can also design their external input e-cap bank to suit the required hold-up time. This flexibility is good for hold-up time critical application such as Robot controllers and Factory Automation.

Main applications

Robot controllers, Factory Automation (FA), Telecommunication (ICT) equipment, Semiconductor manufacturing equipment, etc.

Main features and benefits

- Ultra-small: Industry smallest in its class, 1/2 brick size with 600W output (50% smaller compared to current products)
- Highly efficient: 93% (280 VDC input)
- Conducted cooling in a board mount type
- Safety standard certifications: UL/CSA/EN62368-1, EN62477-1 OVC III (overvoltage category III)
- Wide operating temperature range: -40 to +100°C (base plate temperature)

Key Data: PH600A280

Type	PH600A280-24
Input voltage range	200 to 425VDC
Efficiency (Typ.)	93% (at an input of 280VDC)
Rated output voltage (voltage adjustment range)	24VDC (14.4 to 28.8VDC)
Maximum output current	25A
Maximum output power	600W
Protection function	Over voltage protection, Over current protection
Remote ON/OFF control	Yes
Operating temperature range	-40 to +100°C (base plate temperature)
Size (W x H x D)	61.0 x 12.7 x 57.9mm (1/2 brick size)

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 comprehensive portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. 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 2018, TDK posted total sales of USD 12 billion and employed about 103,000 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 <https://www.tdk-lambda.com/en/>

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