# Power supply product
# 300-1000VDC input, isolated DC-DC converter TEP200-280

- High voltage and wide input voltage range (300 to 1000 VDC)
- Isolated type
- Convection cooling method
- Parallel operation for increased power

April 16, 2018

TDK Corporation announces the development of the TDK-Lambda brand of isolated DC-DC converter TEP200-280, which supports wide range high voltage inputs from 300 to 1000 VDC. The new product satisfies customers' needs as a step-down converter that converts high voltage obtained from renewable energy sources into an input voltage for standard power supplies used for general industrial devices. TDK-Lambda Corporation will start receiving orders in April 2018.

The TEP200-280 is an isolated board type DC-DC converter that can accept a wide range of high voltage inputs from 300 to 1000 VDC. It converts high voltage obtained from renewable energy to 280 VDC, the input voltage for standard power supply for general industrial devices. As the output voltage (280 VDC) is a general input voltage for our standard power supplies, it can be easily converted to the required voltage with our standard switching power supply at the subsequent stage.

This product does not require a fan and employs a convection cooling method. Although the rated output power is 200 W, the power can be increased by parallel operation. This product can be optimally used as an interface for standard power supplies used in equipment that handles high voltages, such as power supplies for power conditioners, BMU* power supplies for high-voltage lithium ion batteries and power supplies for high-voltage secondary battery systems.

*BMU: Battery Management Unit

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**Main applications**

- Interface Power supply for general high-voltage devices, such as power supplies for power conditioners, BMU power supplies for high-voltage lithium ion batteries and power supplies for high-voltage secondary battery systems

**Main features and benefits**

- High-voltage and wide input voltage range (300 to 1000 VDC)
- Output voltage (280 VDC) is the general input voltage for standard power supplies
- Isolated type
- Convection cooling method
- Parallel operation for increased power
- Board coating and plastic cover are equipped as standard

**Key data: TEP200-280**

| Model | TEP200-280 |
|---|---|
| Input voltage range | 300 to 1000 VDC |
| Efficiency (Typ.) | 88% |
| Output voltage | 280 VDC |
| Output power | 200 W<br>(with output derating) |
| Operating temperature range | -20 to +60℃ |
| Function | Overvoltage protection,<br>Overcurrent protection,<br>and Overheating protection |
| Parallel operation | Possible |
| Cooling method | Convection cooling |
| Withstand voltage | 3.0 kVAC (Line – Earth) |
| Size (W × H × D) | 210 × 297 × 45 mm |
| Outline | Board type |

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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, InvenSense, 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 https://www.tdk-lambda.com/en/

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