

### **DC-DC Converters Feature 4:1 Input Range And 2- x 1-in. Footprints**

From [TDK](#), the 40-W and 60-W TDK-Lambda PXD series 2-in. x 1-in. dc-dc converters are capable of operating from a wide input voltage of 9 to 36 Vdc or 18 to 75Vdc. These converters also have a copper case providing six-sided shielding for reduced EMI, simplifying system compliance. Industrial control, telecom/datacom, test, measurement and battery-operated equipment are some of the many applications for the PXD series (see the figure).

The PXD40 and PXD60 converters offer single outputs of 3.3, 5, 12, 15, 24 and 48 Vdc, and dual outputs of  $\pm 12$ ,  $\pm 15$  and  $\pm 24$  Vdc. Using the trim function, the single-output models can be adjusted to compensate for voltage drops or to accommodate non-standard system voltages. The wide input ranges can assist with inventory reduction programs with one part number covering multiple nominal voltages.

All models have a negative logic remote on/off function as standard, which can be used to reduce the input current to a low 3 mA to prolong battery life for portable equipment in standby mode. No minimum loading is required, and the converters are protected against output-overvoltage, overcurrent and overtemperature conditions.

With efficiencies of up to 93%, power losses are minimized, allowing the products to operate with a case temperature of  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$ . Output power derating can be reduced with the use of optional heatsinks and/or system airflow.

All models carry the CE and UKCA marks for the Low Voltage and RoHS Directives and are certified to the IEC/UL/CSA/EN 62368-1 safety standards. The series has an input-to-output and input-to-case isolation of 1,600 Vdc.

More information on the PXD40 and PXD60 series, including distributor inventory, can be obtained from the TDK-Lambda Americas [website](#)



*Figure. Packaged in the industry-standard 2-in. x 1-in. footprint, the TDK-Lambda brand PXD40 and PXD60 series 40-W and 60-W dc-dc converters can operate over a wide 4:1 input range, accepting either a 9- to 36-Vdc or 18- to 75-Vdc input, and generate single outputs from 3.3 to 48 Vdc or dual outputs of  $\pm 12$ ,  $\pm 15$  and  $\pm 24$  Vdc. Six-sided shielding reduces radiated emissions and simplifies system compliance.*