

## LCD50W FED100W Series

DC/DC Converters



Industrial



# Reliable and High-performance DC/DC Converters Can Fulfill The Needs of Diverse Industries.

## High-Efficiency Compact DC/DC Converters: LCD50W and FED100W Series

P-DUKE proudly presents the new DC/DC converter series, LCD50W, and FED100W, featuring compact 1"x1" and 2"x1" designs. These converters cater to the rigorous demands of modern technology and electronic systems, offering exceptional power density, efficiency, and reliability.

The LCD50W series delivers up to 50W of output power within its compact 1"x1" industrial standard package. It supports input voltage ranges of 9 to 36 Vdc and 18 to 75 Vdc, providing single and dual outputs of 5, 12, 15, 24,  $\pm 12$ ,  $\pm 15$ , and  $\pm 24$  Vdc.

The FED100W series offers up to 100W of output power in a compact 2"x1" package. It accommodates input voltage ranges from 9 to 36 Vdc and 18 to 75 Vdc, with single outputs of 5, 12, 15, 24, 28, 48, and 54 Vdc.

Both series boast high power densities of up to 238W/in<sup>3</sup>, making them an ideal space-saving solution for system integration. With a remarkable 94% conversion efficiency, they minimize power loss and heat generation, extending operating temperatures to ease thermal management challenges. Certified to IEC/EN/UL 62368-1 standard and compliant with MIL-STD-810F for shock and vibration, these converters operate at altitudes up to 5000 meters and within ambient temperatures ranging from -40°C to +110°C. Their 4:1 input voltage range makes them perfect for rugged, high-reliability applications such as servo systems, automation control, measurement instruments, and automated inspection equipment.

## Features

- LCD50W: 50W Output Power  
FED100W: 100W Output Power
- 4:1 Wide Input Range From 9 to 36 and 18 to 75V
- Output Voltage:  
LCD50W: 5, 12, 15, 24,  $\pm 12$ ,  $\pm 15$ , and  $\pm 24$  Vdc  
FED100W: 5, 12, 15, 24, 28, 48, and 54 Vdc
- 5000m Operating Altitude
- IEC/UL/EN 62368-1 Safety Approval \*pending
- 3 Years Product Warranty

## Applications

- Servo systems
- Automation control
- Measurement instrument
- Automated inspection equipment

