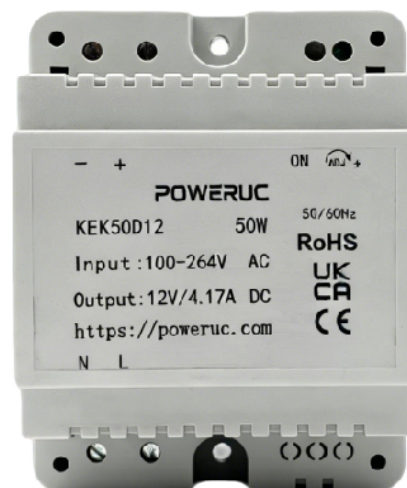


POWERUC

KEK50 Series 50 W DIN-Rail AC/DC Switching Power Supply



Product Overview

The KEK50 Series is a compact, cost-effective and energy-efficient DIN-rail switching power supply module designed for industrial control cabinets. It provides a stable and reliable DC output for industrial control equipment, uses high-frequency switching technology, supports a wide input voltage range, and helps save space in distribution panels while improving system integration.

| Feature | Description |
|----------------------------|---|
| Universal AC input | 100-264 VAC; also supports 140-370 VDC input |
| DIN-rail installation | Compatible with 35 mm DIN rail; compact module design |
| Industrial operating range | -40°C to +70°C operating temperature |
| Dielectric strength | 4 kV AC, 50 Hz, 1 min, 5 mA between input and output |
| Flame retardancy | UL94-V0 compliant material rating |

General Specifications

| Item | Specification |
|-----------------------|--|
| Output power | 50 W |
| Flame retardancy | UL94-V0 |
| Operating temperature | -40°C to +70°C |
| Insulation class | Class B |
| Dielectric strength | 4 kV AC, 50 Hz, 1 min, 5 mA (input/output) |
| Output protection | None |
| Weight | 190 g |

Input Characteristics

| Parameter | Specification |
|----------------|---------------------------------|
| AC input range | 100-264 VAC |
| DC input range | 140-370 VDC |
| Frequency | 47-63 Hz |
| Input current | 1 A @ 230 VAC input |
| External fuse | 1 A / 250 V slow-blow, required |
| Hot-swap | Not supported |

Output Characteristics

| Parameter | Specification |
|--------------------------|----------------------------------|
| Output voltage accuracy | Adjustable via ADJ potentiometer |
| Ripple and noise | 50 mV typical |
| Short-circuit protection | None |
| Overload protection | None |
| Overvoltage protection | None |
| Hold-up time | 50 ms |

Model Selection

| Model | Power | Input voltage | Output voltage / current |
|----------|-------|----------------------------|------------------------------|
| KEK50D05 | 50 W | 100-264 VAC or 140-370 VDC | Single output: 5 V / 10 A |
| KEK50D12 | 50 W | 100-264 VAC or 140-370 VDC | Single output: 12 V / 4.17 A |
| KEK50D24 | 50 W | 100-264 VAC or 140-370 VDC | Single output: 24 V / 2.08 A |
| KEK50D48 | 50 W | 100-264 VAC or 140-370 VDC | Single output: 48 V / 1.04 A |

Model code note: D = single output; S = dual output.

Dimensions

