

Application note



Subject:

Reliable, small foot-print and efficient power supply series

Industry:

Energy and building efficiency

Product:

SPME series

Customer:

System integrators

CUSTOMER ISSUE

New buildings integrate more automated functions to monitor and control different areas' environmental conditions such as heating, ventilation, and air-conditioning (HVAC) to improve the occupant's comfort whilst maintaining high efficiency.

Monitoring equipment such as variable frequency drives, energy meters, and similar devices need auxiliary power to operate.

The main requirements of power supplies are, therefore:

- Compact footprint
- High efficiency
- High degree of reliability during operation
- Compliance with relevant standards

OUR SOLUTION

The SPME power supply series is extremely compact facilitating its installation in tight spaces. The 100 W models have a width of only 70 mm.

The SPME models have an ultra-slim body, from 15 W in 17.5 mm (1 DIN), up to 100 W in only 70 mm (4 DIN) of space.

The built-in protection functions of Over-current, Over-voltage, and, Short circuit ensure a high degree of reliability during the operations.

The SPME series has a universal input voltage range of 85 VAC to 264 VAC or 120 VDC to 370 VDC, and a wide operating temperature range (-40°C to +70°C / -40°F to 158°F) with derating starting from 50°C (122°F) for most of the models.

The SPME comes with efficiency up to 91.5%, and with the latest industry standards UL 62368-1.

BENEFITS

- Occupies less space in the panel
- Wide selection of power outputs (15/24/36/54/60/90/100 W)
- 4 power ranges in housing:
 - 15 W in 17,5 mm (1 DIN)
 - 24/36 W in 35 mm (2 DIN)
 - 54/60 W in 52 mm (3 DIN)
 - 90/100 W in 70 mm (4 DIN)
- Wide selection of voltage outputs (12/24 VDC)
- Over Current, Over Voltage, Short Circuit output protections, and Over Temperature available for SPME 150 series
- Efficiency up to 91.5%
- 4 kVAC isolation voltage
- Overvoltage category III
- Wide operating temperature range (-40°C to +70°C / -40°F to 158°F)
- Derating starting from 50°C
- Green LED for status indication
- Voltage output adjustment
- Operates on different supply voltages (85 VAC to 264 VAC or 120 VDC to 370 VDC)
- CE, UKCA, UL 62368-1 approvals