

# Application note



Subject:  
**Efficient and Certified  
 Production Controls for Plastic  
 Industry**

Industry:  
**Plastic & Rubber**

Product:  
**SPPM Enclosed series**

Customer:  
**OEMs**

## CUSTOMER ISSUE

Plastic materials play a key role in shaping modern technological development.

Thanks to their light weight, optimized sliding properties, high abrasion resistance, dimensional stability, and chemical resistance, they often outperform traditional materials—even in high-temperature applications.

To achieve and maintain these high-quality standards, production processes must be supported by highly efficient, flexible, and certified automation systems.

Within this context, power supplies are required to meet the following key criteria:

- **Compact footprint**
- **High efficiency**
- **Flexible installation**
- **Compliance to relevant standards**

## OUR SOLUTION

The SPPM power supply series features an extremely compact design, making it ideal for installation in space-constrained environments. For example, the 200 W models measure only 190 mm (H) x 99 mm (W) x 30 mm (D).

SPPM units provide high operating efficiency of up to 91%, contributing to improved energy performance and reduced system losses.

The series offers a universal input voltage range, supporting both AC and DC inputs, and operates reliably across a wide temperature range from -30°C to +70°C (-22°F to +158°F), with derating starting from 50°C (122°F) for most models.

In addition, SPPM power supplies comply with the latest industry standards, including UL 62368 and UL 60950, ensuring safe and certified operation in demanding industrial applications.

## BENEFITS

- **Reduced panel space** requirements
- **Wide power range:** from 25 W to 800 W
- **12 available power ratings**
- **Multiple output voltage** options:  
12 / 24 / 48 Vdc
- **Compatible** with various AC/DC input voltages
- **Comprehensive** protection features
- **Green LED** for status indication
- **Adjustable** output voltage
- **High efficiency** up to 91%
- **Isolation voltage** up to 4 kVAC
- **Overvoltage** category II
- **Wide operating temperature** range (-30°C to +70°C) (-22°F to 158°F)
- **Derating** from 50°C
- **Certified** according to:  
CE and UL 62368 / UL 60950