

# SPC50-MPPT

Solar Power Unit



## KEY FEATURES

- Compact design
- Maximum Power Point Tracking (MPPT) technology application for optimal performance
- Suitable for installations in harsh environments
- Status monitoring via LEDs
- High reliability and efficiency
- Maximizes energy harvest
- 7 charging modes availability according to the sun condition
- Low self-consumption
- Supports USB connection

A solar power unit SPC50-MPPT is an all-in-one energy storage system designed to power the Micro-Z family of electronic volume correctors independently from the electrical grid.

The power box and the input and output terminals of the system are isolated. This property makes the equipment not affected by any environmental conditions. It also features smart charging that controls DC power consumption and protects batteries from overheating.

## Maximum Power Point Tracking (MPPT)

With a rapid sweep of the entire I-V curve, the MPPT-5MC compartment ensures maximum power is extracted from the solar panel with maximum efficiency. As a result, it can meet the power needs of the systems.

## Safety Barrier

The existing ISO52EX safety barrier limits the transfer of high energy from the safe area to the hazardous area to a safe level.

## Li-Ion Battery Pack

The SPC50-MPPT solar power unit is equipped with a 7.2 V, 5.2 Ah lithium-ion battery pack. For reliability, performance, and battery life, lithium-ion batteries are preferred over lead-acid batteries. A high-density lithium-ion battery allows for more compact design than lead-acid battery packs.

Properties	SPC50-MPPT
Solar panel voltage	12-24 V
Output voltage	4.9 V
Battery charge voltage	8.4 V
Max battery charge current	5 A
Max battery discharge current	3 A
Discharge cut-off voltage	6 V
Dimensions	218H-230W-134D mm
Ambiance temperature	-20 to +70 °C
Weight	1.4 kg

