

MPS series (45 – 80 A)

Modular Power Switch



- 12/24/48 V automatic recognition of system voltage
- Low-voltage or overcharge disconnect (adjustable)
- Overcharge protection
- Pulse-width modulation or two-point series switching
- Can also be used with hybrid systems
- Excess energy management
- Flexible grounding
- DIN rail mounting

The MPS is Phocos's innovative new multi-functional power switching module for stand-alone power systems. It can be configured to operate as an overcharge or deep discharge protection unit in PV systems as well as a dumpload controller for wind and micro-hydro turbine systems. A single MPS unit can control up to 80 A of current. It can be regulated via pulse-width modulation, two-point series switching, or dumpload in order to protect your system against overcharge or deep discharge.

The power electronics allow for positive or negative grounding. The power switch is a fundamental unit within Phocos's innovative Modular Power Management range. Multiple MPS units can be operated together with the help of Phocos's MCU modular control unit and can control up to 640 A of charge current in steps of 45 or 80 A. MPS is a cost-effective, simple, yet versatile power switch and offers a valuable solution for stand-alone PV, wind, micro-hydro, or hybrid power systems.

Type	MPS 45	MPS 80
Nominal voltage	12/24/48 V automatic recognition of system voltage	
Load current max.	45 A	80 A
Max. panel voltage	30 V in 12 V system 50 V in 24 V system 95 V in 48 V system	
Own consumption	< 10 mA	
Grounding	Positive grounding and negative grounding are selectable	
Ambient temperature	-40 to +50 °C	
Dimensions (W x H x D)	108 x 150 x 112 mm	
Weight	1,007 g	1,100 g
Type of protection	IP20	