

MPS

Modular Power Switch



- 12, 24 or 48V
- Low voltage disconnect (adjustable)
- Overcharge protection
- Pulse-width modulation
- Two-point series switching
- Diversion control
- Excess energy management
- Flexible grounding
- DIN rail mounting

MPS is Phocos' innovative new multi-functional power switching module for stand-alone power supplies. It can be configured to operate as a charge controller, load controller or diversion controller by simple toggling of DIP switch settings.


A single MPS unit can control up to 80A of current at 12, 24 or 48V and switching can be set for pulse-width modulation or two-point series switching. When configured as a diversion controller, MPS can also control a diversion load for wind and micro-hydro turbine systems.

MPS offers integrated, adjustable low voltage disconnect as a load controller and sophisticated overcharge protection as a solar charge controller. The new flexible power electronics allow for positive or negative grounding.

The power switch is a fundamental unit within Phocos' innovative Modular Power Management family. Multiple MPS units can be operated together with the help of Phocos' MCU modular control unit. This allows multiple strings of solar inputs to be used to charge the same battery bank at an aggregate charge current of up to 320A. Used as load controllers, multiple MPS units can control up to 200A of total load current.

MPS is a cost-effective, simple, yet versatile power switch that is a valuable solution for stand-alone solar, wind, micro-hydro or hybrid power supplies.

TYPE	MPS45	MPS80
Nominal voltage	12/24/48V	12/24/48V
Load current Max.	45A	80A
Self power consumption	<10mA	<10mA
Ambient temp.range	-25 to +50 °C	-25 to +50 °C
Dimension	108x150x112mm	108x150x112mm
Weight	1007g	1100g
Type of protection	IP22	IP22

 Compatible with the modular power management

- Phocos AG, Germany
info@phocos.com
- Phocos China Ltd., China
Info-china@phocos.com
- Phocos India Solar Pvt. Ltd., India
Info-india@phocos.com
- Phocos Latin America S.R.L., Bolivia
Info-latinamerica@phocos.com
- Phocos Rep. Office Australia, Australia
Info-australia@phocos.com
- Phocos Rep. Office Brazil, Brazil
Info-brazil@phocos.com
- Phocos Rep. Office Eastern Africa, Kenya
Info-easternafrica@phocos.com
- Phocos Eastern Europe S.R.L., Romania
Info-easterneurope@phocos.com
- Phocos SEA Pte Ltd, Singapore
Info-sea@phocos.com
- Phocos Rep. Office South Africa
Info-sadc@phocos.com
- Phocos Tunisia
Info-maghreb@phocos.com
- Phocos USA
Info-usa@phocos.com