SMA POWER CONTROL MODULE

SMA

Flexible

- Suitable for various requirements
- 4 digital inputs,
  1 multi-function relay
- Optional or available as retrofit kit

Simple & future-proof

- Functionality upgrade via
  firmware update
- Fast and uncomplicated installation

User-friendly

- Configuration with Sunny Explorer
  software version 1.05 or higher,
  Sunny WebBox and Sunny Web-
  Box with *Bluetooth*® firmware ver-
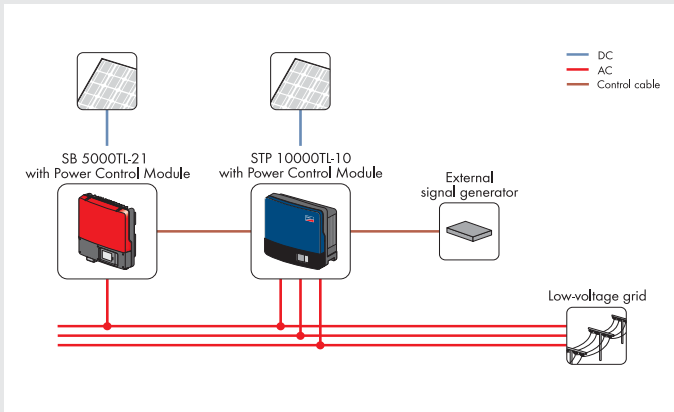 sion 1.03 or higher

Complies with standards

- Satisfies requirements of key
  national laws and standards,
  such as Germany's 2012
  Renewable Energy Sources Act
  and Italy's CEI-0-21*

SMA POWER CONTROL MODULE

The multi-function interface for PV inverters

Following changes to legal and normative requirements in many countries, PV plants must now meet additional specifications for grid integration. As a multi-function interface, the SMA Power Control Module ensures compliance: Digital inputs implement the various specifications for the inverters. For example, the SMA Power Control Module governs remote active power limitation at 0%, 30%, 60%, and 100% of the agreed connected active power; it also permits remote shutdown and adjustment of frequency limits. In addition, the device has a multi-function relay that can be used as a fault indicator relay, to control external loads, or to charge a battery.

* This only applies to the PWCMOD-10

Technical data	SMA Power Control Module	
Inputs		
Type	4 digital inputs	4 digital inputs
Voltage supply		
Voltage supply	Via inverter	Via inverter
Outputs		
Max. DC switching voltage	30 V	30 V (DC) / 230 V (AC)[1]
Max. DC switching current	1,0 A	1,0 A
Terminal	3-pole plug	3-pole spring clamp terminal (on the inverter side)
Minimum electrical endurance when the maximum switching voltage and maximum switching current are complied with	100.000 switching cycles	100.000 switching cycles
General data		
Dimensions (W / H / D)	58 / 115 / 31 mm (2,3 / 4,5 / 1,2 inch)	127 / 77 / 39 mm (5 / 3 / 1,5 inch)
Weight	49 g	55 g
Mounting location	In the inverter	In the inverter
Degree of protection according to IEC 60529	IP20	IP20
Required degree of protection of the inverter according to IEC 60629	IP65	IP65
Ambient conditions for storage/transport		
Ambient temperature	–40 °C ... +70 °C (–40 °F ... +158 °F)	–40 °C ... +70 °C (–40 °F ... +158 °F)
Relative humidity, non-condensing	10 % ... 95 %	10 % ... 95 %
Maximum height above mean sea level	3000 m	3000 m
Ambient conditions during operation		
Ambient temperature	–25 °C ... +85 °C (–13 °F ... +185 °F)	–25 °C ... +85 °C (–13 °F ... +185 °F)
Relative humidity, non-condensing	4 % ... 100 %	4 % ... 100 %
Maximum height above mean sea level	3000 m	3000 m
Available for the following inverters		
SUNNY BOY	SB 2500TLST-21, 3000TLST-21, 3000TL-21, 3600TL-21, 4000TL-21, 5000TL-21	–
SUNNY TRIPOWER	STP 8000TL-10, 10000TL-10, 12000TL-10, 15000TL-10, 17000TL-10, 15000TLHE-10, 20000TLHE-10, 15000TLEE-10, 20000TLEE-10	STP 5000TL-20, 6000TL-20, 7000TL-20, 8000TL-20, 9000TL-20
WINDY TRIPOWER	–	WTP 5000TL-20, 6000TL-20, 7000TL-20, 8000TL-20, 9000TL-20
Maximum number of Power Control Modules connected in parallel	5	5 [2]
Type designation	PWCMOD-10	PWCBRD-10