POWER REDUCER BOX





Reliable

- Complies with the German EEG* amendment on feed-in management
- Logging of all events and status changes
- Meets the requirements of the German Medium-Voltage Directive (BDEW)** for grid safety management

Flexible

- Active power limitation and reactive power setpoint
- Reliably controls up to 2,500 inverters

Simple

- Straightforward integration into existing plants
- Easy installation
- Free support from the SMA Serviceline
- Integrated web server

POWER REDUCER BOX

Feed-in management for PV plants

With the Power Reducer Box, SMA provides a solution for large-scale PV plants that take part in feed-in management. It allows the grid operator to remotely control the plant performance in cases when the grid is overloaded. It achieves this by translating the transmitted set point values into control commands for the Sunny WebBox, which forwards them to the inverters. During this process each change of status is logged twice, in the Power Reducer Box and in the Sunny WebBox. In addition, the grid operator's requirements are visualized in Sunny Portal that can immediately inform the plant operator via email about undertaken power limitations.

** Guideline established by the German Federal Association for Energy and Water



 ** Guideline established by the German Federal Association for Energy and Water

Technical Data	Power Reducer Box
Communication	
PC communication	Ethernet
Communication with Sunny WebBox	Ethernet
Data transmission to the Sunny Portal	Ethernet
Connections	
Ethernet	10 / 100 Mbit, RI45
Radio ripple control receiver (AUX-COM)	4 diaital inputs
Max. number of SMA devices	·
Sunny WebBox (from firmware version 1.45)	50
Sunny WebBox with Bluetooth® (from firmware version 1.04)	50
Max. communication range	
Ethernet	100 m
Power Supply	
Power supply	External plug-in power supply
Input voltage	100 V - 240 V AC: 50 / 60 Hz
Power consumption	tvp. 4 W / max. 12 W
Environmental conditions in operation	
Ambient temperature	-20 °C +60 °C (-4 °F +140 °)
Relative humidity	5 % 95 %
Memory	
Internal	16 MB in a ring buffer configuration
External	SD card 1 GB / 2 GB (optional)
General data	
Dimensions (W / H / D)	255 / 130 / 57 mm (10 / 5.1 / 2.2 inch)
Weight	0.75 kg (1.7 lb)
Mounting location	Indoors
Installation options	Top-hat rail mounting, wall mounting
Status display	LEDs
Software language	German, English, Spanish, French, Czech
Language of the manual	German, English, Spanish, French, Czech
Features	
Operation	integrated web server (Internet browser)
Warranty	5 years
Certificates and approvals	www.SMA-Solar.com
Accessories	
SD card	0
Plug-in power supply with adapters	•
• Standard features • Optional features – Not available	
Type designation	Power Reducer Box

www.SMA-Solar.com

SMA Solar Technology