

I-BOX-40



Flexible

- Compatible with latest-generation SMA Sunny Boy and Sunny Tripower inverters
- For new and existing PV systems with up to three inverters
- Custom curtailment times pursuant to electric utility company specifications

Easy to use

- Plug-and-play solution for DIN rail or wall mounting
- Connection to inverter using system cable supplied
- Preconfigured curtailment levels 100%/60%/30%/0%
- Separate power supply not required

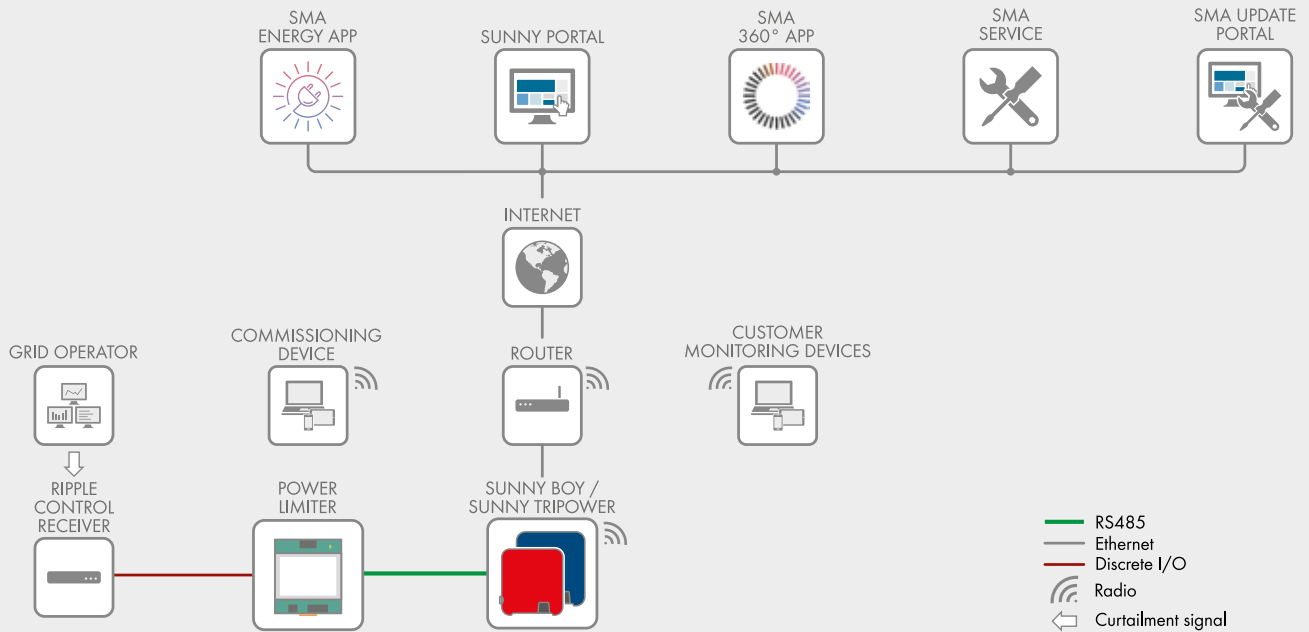
SMA POWER LIMITER

Multifunction interface for grid management services

As a multifunction interface for SB3.0-6.0-1AV-41 and STP3.0-10.0-3AV-40, the SMA Power Limiter reliably implements grid management services for up to three inverters. Preconfigured modes allow feed-in power to be reduced gradually in accordance with the Renewable Energy Sources Act EEG2012/2017 and enable Fast-Stop in line with EN 50549-1. This means that domestic PV systems are ideally suited to all stipulated requirements for limiting active power.

Custom grid operator requirements regarding curtailment time can easily be adjusted via the inverter's configuration interface. With its flexible mounting layout and supplied RS485 connector cable, integrating the SMA Power Limiter into new and existing systems is quick and easy.

System diagram



Technical data	SMA Power Limiter
Input	
Number of digital inputs (ripple control receiver)	4 (NO contacts)
Number of digital inputs (fast stop)	1 (NC contact)
Output	
Voltage supply via inverter	10 V to 18 V
Number of controllable inverters	3
Compatible with the following inverters	
Sunny Boy	SB3.0-1AV-41, SB3.6-1AV-41, SB4.0-1AV-41, SB5.0-1AV-41, SB6.0-1AV-41
Sunny Tripower	STP3.0-3AV-40, STP4.0-3AV-40, STP5.0-3AV-40, STP6.0-3AV-40, STP8.0-3AV-40, STP10.0-3AV-40
Not compatible with the following devices	SB1.5-1VL-40, SB2.0-1VL-40, SB2.5-1VL-40, SMA Energy Meter, Sunny Home Manager 2.0, SMA Data Manager M
General data	
Dimensions (W/H/D)	68 mm x 75 mm x 54 mm (2.7 in / 3.0 in / 2.1 in)
Weight	60 g (0.13 lb)
Mounting location	Indoor
Mounting type	Wall mounting / DIN rail mounting
Degree of protection (to IEC 60529)	IP20
Operating temperature range	-25 °C to +60 °C (-13 °F to +140 °F)
Storage/transport temperature range	-40 °C to +70 °C (-40 °F to +158 °F)
Max. permissible value for relative humidity (non-condensing)	4% to 100%
Maximum operating altitude above mean sea level	3000 m
Type designation	I-BOX-40

● Standard features ○ Optional features – Not available Data in nominal conditions Last revision: August 2020