SUNNY BOY 5.0-US / 6.0-US





Value-Added Improvements

- World's first Secure Power Supply now offers up to 2,000 W
- Full grid management capabilities ensures a utility-compliant solution for any market

Reduced Labor

- New Installation Assistant with direct access via smartphone minimizes time in the field
- Integrated disconnect simplifies equipment stocking and speeds installation

Unmatched Flexibility

- SMA's proprietary OptiTracTM
 Global Peak technology mitigates
 shade with ease
- Multiple independent MPPTs accommodate hundreds of stringing possibilities

Trouble-Free Servicing

- Two-part enclosure concept allows for simple, expedited servicing
- Enhanced AFCI technology reduces false tripping while improving sensitivity in real arcs, greatly reducing unneeded service calls

SUNNY BOY 5.0-US/6.0-US

Reduce costs across your entire residential business model

The residential PV market is changing rapidly, and we understand that your bottom line matters more than ever. That's why we've designed a superior residential solution that will help you decrease costs throughout all stages of your business operations. The Sunny Boy 5.0-US/6.0-US join the SMA lineup of field-proven solar technology backed by the world's #1 service team, along with a wealth of improvements. Simple design, improved stocking and ordering, value driven sales support and streamlined installation are just some of the ways that SMA is working to help your business operate more efficiently.

Technical data	Sunny Boy 5.0-US		Sunny Boy 6.0-US		
ecinical data	208 V	240 V	208 V	240 V	
nput (DC)					
Max usable DC power	5300 W	5300 W	5500 W	6300 W	
Лах. DC Voltage	600 V				
ated MPP Voltage range	220 - 480 V				
APPT operating voltage range		100 - 550 V			
Ain. DC voltage / start voltage	100 V / 125 V				
Max. operating input current per MPPT	10 A				
Number of MPPT tracker / string per MPPT tracker		3	/ 1		
Output (AC)					
C nominal power	5000 W	5000 W	5200 W	6000 W	
Max. AC apparent power	5000 VA	5000 VA	5200 VA	6000 VA	
Nominal voltage / adjustable	208 V / ●	240 V / ●	208 V / ●	240 V / ●	
AC voltage range	183 - 229 V	211 - 264 V	183 - 229 V	211 - 264 V	
AC grid frequency			/ 50 Hz		
Aax. output current	24.0 A	24.0 A	25.0 A	25.0 A	
ower factor (cos φ)			1	20.07.	
Dutput phases / line connections	1/2				
Harmonics	< 4 %				
ifficiency		``	4 /6		
•	97.2 %	97.5 %	97.2 %	97.6 %	
Лах. efficiency CEC efficiency	96.5 %	97.3 %	96.5 %	97.0 %	
Protection devices	70.5 /6	97 /0	70.3 %	97 /0	
OC disconnect device		_			
OC reverse polarity protection			<u></u>		
Ground fault monitoring / Grid monitoring			•		
AC short circuit protection			<u>-</u>		
Al-pole sensitive residual current monitoring unit (RCMU)		•			
Arc fault circuit interupter (AFCI)			•		
rotection class / overvoltage category		1,	/ IV		
General data					
Dimensions (W / H / D) in mm (in)	535 x 730 x 198 (21.1 x 28.5 x 7.8)				
ackaging Dimensions (W / H / D) in mm (in)		600 x 800 x 300 (23.6 x 31.5 x 11.8)			
Veight		26 kg (57 lb)			
ackaging weight	30 kg (66 lb)				
Operating temparature range	- 25°C+60°C				
Noise emission (typical)		< 25 dB(A)			
nternal power consumption at night		< 5 W			
opology	transformerless				
Cooling concept		convection			
eatures					
ecure power supply			•		
Display (2 x 16 characters)			•		
nterfaces: Ethernet / WLAN		•	/ ●		
iensor module / External WLAN antenna		0/0			
Varranty: 10 / 15 / 20 years		●/0/0			
Certificates and approvals	UL 1741, UL 199	98, UL 1699B, IEEE1547, FCC	Part 15 (Class A & B), CAN/CS	A V22.2 107.1-1	

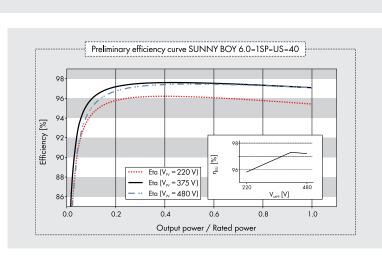
Type designation Accessories



Sensor module MD.SEN-US-40



External WLAN antenna EXTANT-US-40



SBS.0.6.0.US-DUS 160120 SMA and Sumy Boy are registered trademarks of SMA Solar Technology AC. Printed on FSC-artified proper. All products and services describ are subject to change, even for reasons of country-specific deviations, at any time without natice. SMA assumes no liability for errors or amissions. For current information, see "