



Technical Data

Flexible

- 3 different input voltage ranges
- For inside and outside installation
- Wide range of display and communication options
- Extended temperature range

Reliable

- Worldwide SMA service and SMA Service Line
- Attractive SMA warranty program

Your Specialist Supplier



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	Sunny Boy 700 (73 V to 120 V)	Sunny Boy 700 (96 V to 160 V)	Sunny Boy 700 (119 V to 200 V)
Input data			
Max. DC power ($P_{DC, max}$)	510 W	670 W	780 W
Max. DC voltage ($U_{DC, max}$)	150 V	200 V	250 V
PV voltage range, MPPT (U_{MPP})	73 V – 120 V	96 V – 160 V	119 V – 200 V
Max. input current ($I_{PV, max}$)	7 A	7 A	7 A
DC voltage ripple (U_{pp})	< 10 %	< 10 %	< 10 %
Max. number of strings (parallel)	2	2	2
DC isolator	Connectors	Connectors	Connectors
Thermally monitored varistors	yes	yes	yes
Ground fault monitoring	yes	yes	yes
Reverse polarity protection	short-circuit diode	short-circuit diode	short-circuit diode
Output data			
Max. AC power ($P_{AC, max}$)	460 W	600 W	700 W
Nominal AC output ($P_{AC, nom}$)	460 W	600 W	700 W
THD of AC current	< 3 %	< 3 %	< 3 %
Nominal AC voltage ($U_{AC, nom}$)	220 V – 240 V	220 V – 240 V	220 V – 240 V
Nominal AC frequency ($f_{AC, nom}$)	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Power factor ($\cos \phi$)	1	1	1
Short-circuit proofing	yes, current control	yes, current control	yes, current control
Grid connection	AC plug connector	AC plug connector	AC plug connector
Efficiency			
Max. efficiency	93.4 %	93.4 %	93.4 %
Euro ETA	92 %	92 %	92 %
Protection rating in accordance with DIN EN 60529	IP65	IP65	IP65
Mechanical data			
Width/height/depth (mm)	322 / 290 / 180	322 / 290 / 180	322 / 290 / 180
Weight	16 kg	16 kg	16 kg

SUNNY BOY 700

Easy Planning and Low Installation Costs

The Sunny Boy 700 is the originator of the SMA Sunny Boy string inverter family, and since 1995 has been proving its reliability in large numbers, being implemented all around the world.

With its configurable input voltage range, the Sunny Boy 700 can be adjusted to individual system requirements in just a few simple steps. Three different input voltage ranges are selectable, so that smaller systems can also be connected to the grid with a professional device.

