

## Efficient

- > OptiCool active temperature management
- > The best tracking efficiency with OptiTrac MPP tracking

## Safe

- > Galvanic isolation
- > Integrated ESS DC load-disconnecting unit
- > SMA Power Balancer for three-phase grid connection

## Flexible

- > Input voltage range of up to 800 V
- > Suitable for generator grounding



# SUNNY MINI CENTRAL

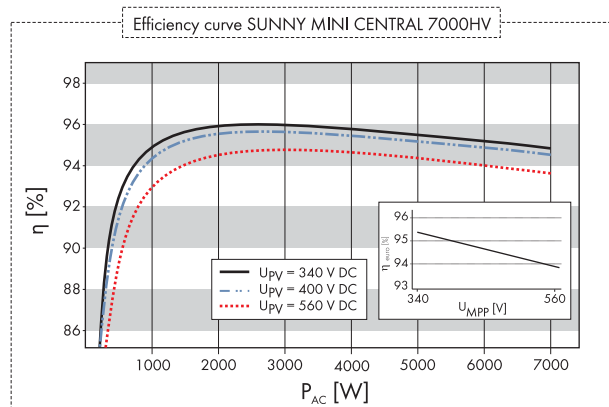
The champion for thin-film projects

Greater input voltage range – lower installation costs: with the Sunny Mini Central 7000HV, more modules can be connected in series than is possible with common inverters. This reduces cabling costs on the DC side and simplifies the installation. Because of its galvanic separation, the Sunny Mini Central 7000HV can be used with both crystalline cells and thin-film modules. Its performance range permits the installation of large PV systems made up of smaller units, which allows for detailed system monitoring.

# Technical Data

## SUNNY MINI CENTRAL 7000HV

	SMC 7000 HV	
<b>Input (DC)</b>		
Max. DC power	7500 W	
Max. DC voltage	800 V	
PV-voltage range, MPPT	335 V - 560 V	
Max. input current	23 A	
Number of MPP trackers	1	
Max. number of strings (parallel)	4	
<b>Output (AC)</b>		
Nominal AC output	6650 W	
Max. AC power	7000 W	
Max. output current	31 A	
Nominal AC voltage / range	220 V - 240 V / 180 V - 260 V	
AC grid frequency (self-adjusting) / range	50 Hz / 60 Hz / $\pm 4.5$ Hz	
Phase shift (cos $\phi$ )	1	
AC connection / power balancing	single-phase / ●	
<b>Efficiency</b>		
Max. efficiency	96.1 %	
Euro-Eta	95.3 %	
<b>Protection devices</b>		
DC reverse polarity protection	●	
ESS DC load-disconnecting switch	●	
AC short-circuit protection	●	
Ground fault monitoring	●	
Grid monitoring (SMA Grid Guard)	●	
Galvanically isolated	●	
<b>General Data</b>		
Dimensions (W / H / D) in mm	468 / 613 / 242	
Weight	65 kg	
Operating temperature range	-25 °C ... +60 °C	
Noise emission (typical)	$\leq 41$ dB(A)	
Consumption: operating (standby) / night	< 7 W / 0.25 W	
Topology	LF transformer	
Cooling concept	OptiCool	
Mounting location: indoors / outdoors (IP65)	●/●	
<b>Features</b>		
DC connection: MC3 / MC4 / Tyco	○/●/○	
AC connection: screw terminal	●	
LCD	●	
Interfaces: Bluetooth® / RS485	○/○	
Warranty: 5 years / 10 years / 15 years / 20 years / 25 years	●/○/○/○/○	
Certificates and approvals	www.SMA.de	
● Standard ○ Optional	Data at nominal conditions - Last update: September 2009	



### Accessories



RS485 interface of type 485PB-NR



Bluetooth Piggy-Back



SMA Power Balancer Plug PBL-SMC-10-NR



Grounding-Kit "Positive" ESHV-P-NR



Grounding-Kit "Negative" ESHV-P-NR