

# SUNNY MINI CENTRAL 7000HV

SMC 7000HV-11



## Efficient

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

## Reliable

- Galvanic isolation
- Integrated ESS DC switch-disconnector
- SMA Power Balancer for three-phase grid connection

## Flexible

- Integrated reactive power capability and grid management functions
- Input voltage range of up to 800 V
- Suitable for PV array grounding

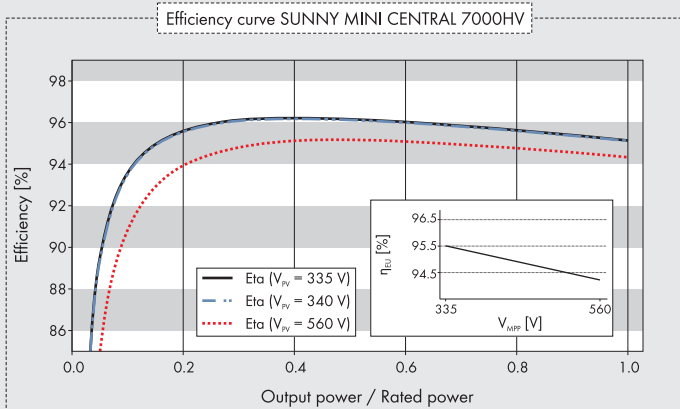
## Simple

- SUNCLIX DC plug system

## SUNNY MINI CENTRAL 7000HV

The champion for thin-film projects

More modules can be connected in series with the Sunny Mini Central 7000HV than with common inverters. This reduces cabling costs on the DC side and simplifies the installation. Due to its galvanic isolation, the device can be used both with crystalline cells and thin-film PV modules. Its performance range allows the installation of large PV arrays using smaller string inverters, resulting in more detailed PV plant monitoring. Its new reactive power and grid management functions mean it is also suitable for demanding applications.



### Accessories



RS485 interface  
485PB-SMC-NR



Bluetooth Piggy-Back  
BTPBINV-NR



SMA Power Balancer Set  
Plug-in system  
PBL-SMC-10-NR



Grounding set "Positive"  
ESHV-P-NR



Grounding set "negative"  
ESHV-N-NR

\* Does not apply to all national annexes to EN 50438

### Technical Data

#### Input (DC)

Max. DC power (@  $\cos \varphi = 1$ )  
Max. input voltage  
MPP voltage range / rated input voltage  
Min. input voltage / initial input voltage  
Max. input current  
Max. input current per string  
Number of independent MPP inputs / strings per MPP input

#### Output (AC)

Rated output power (@ 230 V, 50 Hz)  
Max. apparent AC power  
Nominal AC voltage / range  
AC power frequency / range  
Rated power frequency / rated grid voltage  
Max. output current  
Power factor at rated output power  
Adjustable displacement power factor  
Feed-in phases / connection phases  
Power balancing

#### Efficiency

Max. efficiency / European weighted efficiency

#### Protection devices

DC disconnect device  
Ground fault monitoring / grid monitoring  
DC reverse-polarity protection / AC short-circuit current capability / galvanically isolated  
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)

#### General data

Dimensions (W / H / D)  
Weight  
Operating temperature range  
Noise emission (typical)  
Internal consumption (night)  
Topology  
Cooling concept  
Degree of protection (according to IEC 60529)  
Climatic category (according to IEC 60721-3-4)  
Maximum permissible value for relative humidity (non-condensing)

#### Features

DC terminal  
AC terminal  
Display  
Interface: RS485 / Bluetooth®  
Warranty: 5 / 10 / 15 / 20 / 25 years  
Certificates and approvals (more available on request)

● Standard features ○ Optional features – Not available Data at nominal conditions  
Type designation

### Sunny Mini Central 7000HV

7500 W
800 V
335 V - 560 V / 340 V
290 V / 400 V
23 A
23 A
1 / 4
6650 W
7000 VA
220 V, 230 V, 240 V / 160 V - 265 V
50 Hz, 60 Hz / -6 Hz ... +5 Hz
50 Hz / 230 V
31 A
1
0.8 overexcited ... 0.8 underexcited
1 / 1
●
96.2 % / 95.5 %
●
● / ●
● / ● / ●
I / III
468 / 613 / 242 mm (18.4 / 24.1 / 9.5 in)
65 kg / 143.3 lb
-25 °C ... +60 °C / -13 °F ... +140 °F
41 dB(A)
0.25 W
LF transformer
OptiCool
IP65
4K4H
100 %
SUNCLIX
Screw terminal
Text line
○ / ○
● / ○ / ○ / ○ / ○
CE, VDE 0126-1-1, C10/C11, PPDS, EN 50438*, AS 4777, PPC, IEC 61727, RD661/2007, VDE-AR-N 4105, UTE C15-712-1, G59/2, RD1699

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