

SUNNY MINI CENTRAL 7000HV

SMC 7000HV-11



Efficient

- OptiCool active temperature management
- OptiTrac MPP tracking for best tracking efficiency

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

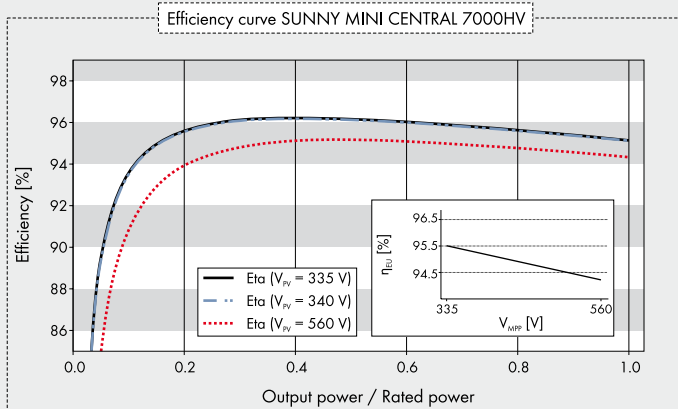
SUNNY MINI CENTRAL 7000HV

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 separation, the device can be used both with crystalline cells and thin film 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.

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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



● Standard features

○ Optional features

– Not available

Data at nominal conditions

* 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
AC nominal voltage / range
AC power frequency / range
Rated power frequency / rated power voltage
Max. output current
Power factor at rated output power
Adjustable displacement factor
Feed-in phases / connection phases
Power balancing

Efficiency

Max. efficiency / European efficiency

Protection devices

Reverse current protection / input-side disconnection device
Ground fault monitoring / grid monitoring
DC reverse-polarity protection / AC short-circuit current capability / galvanically isolated
All-pole sensitive residual current monitoring unit
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)
Degree of protection of connection area (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)

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

IP65

4K4H

100 %

SUNCLIX

Screw terminal

Text line

○ / ○

● / ○ / ○ / ○ / ○ / ○

CE, VDE0126-1-1, DK 5940 ED2.2, G83/1-1, RD 1663/2000,
RD 661/2007, PPC, AS4777, EN 50438*, PPDS, UTE C15-712-1,
IEC 61727, C10 / 11

Type designation

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www.SunnyPortal.com

Professional management, monitoring and presentation of PV plants

