

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

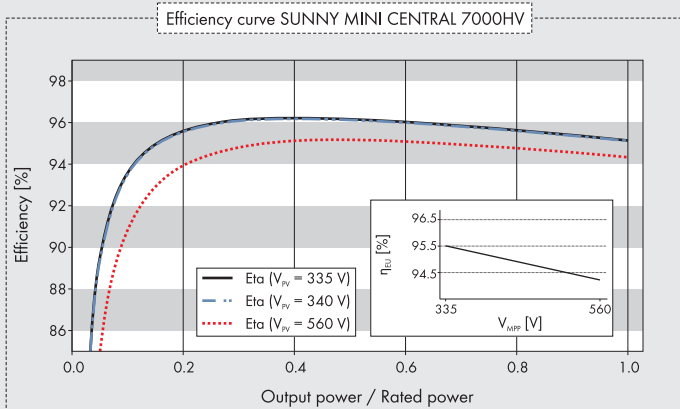
Simple

- 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 φ = 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

SMC 7000HV-11