

## Solar Energy South Africa

# Sunny central storage Niger



## Overview

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What is sunny central storage?

The Sunny Central Storage is the central component of the SMA system solution for integration of large-scale storage systems. It is designed to compensate fluctuations in solar energy generation and offers comprehensive grid management services, e.g., automatic frequency control.

Does sunny central storage work with SMA power plant manager?

The Sunny Central Storage is designed to work with the SMA Power Plant Manager and is also available as turnkey solution with the SMA medium-voltage systems. DC Voltage range for max. AC power (at 25°C / at 50°C)<sup>1)</sup> Max. DC current Max. AC power (at 25°C / at 40°C / at 50°C)<sup>1)2)</sup> Max. AC current (at 25°C / at 40°C / at 50°C) DC Voltage range for max.

Does sunny central storage work with SMA hybrid controller?

Thanks to its wide DC voltage range, it is compatible with various types of battery technologies. The Sunny Central Storage is designed to work with the SMA Hybrid Controller and is also available as turnkey solution with medium-voltage block.

## Sunny central storage Niger



### Discover the Sunny Central Storage UP-US!

Battery inverters for large scale storage systems. With an output of up to 3960 kVA and system voltages up to 1500 V DC, the SMA Sunny Central Storage allows for more efficient and flexible system design for battery power plants.

### SMA Announces Complete Portfolio of UL-listed Sunny ...

SMA Announces Complete Portfolio of UL-listed Sunny Central Storage Inverters Newest Sunny Central Storage 2475-US and 2750-EV-US Are Now Available ROCKLIN, Calif., November 30, 2017--Today SMA announced two new power classes for its utility-scale storage product portfolio. Now available, the Sunny Central Storage 2750-EV-US for 1,500 V



### SUNNY CENTRAL STORAGE

o SCS 900 (Sunny Central Storage 900) o SCS 1000 (Sunny Central Storage 1000) o Cabinet design (Version 11, V11.1), Manufacturer: BAS Cabinet design V11, Manufacturer: Rittal Illustrations in this document are reduced to the essential and may deviate from the real product.

### Sunny Central Storage UP-XT

With a max. output of up to 4600 kVA and system voltages up to 1500 V DC, the SMA

Sunny Central Storage allows for more efficient and flexible system design for battery power plants. The SCS UP-XT versions allow a system design with higher output power and higher short-circuit current contribution. The intelligent cooling system OptiCool ensure



## Sunny Central Storage online entdecken! , SMA Solar

Der Batterie-Wechselrichter Sunny Central Storage ist die zentrale Komponente der SMA Systemlösung zur Integration großer Speichersysteme. Er gleicht Schwankungen in der Solarstromerzeugung aus und bietet umfassende Netzsystemdienstleistungen, wie z. B. die automatische Frequenzregelung. Der Batterie-Wechselrichter ist für den Dauerbetrieb

## SUNNY CENTRAL STORAGE 500 / 630 / 720 / 760 / 800 / 850 ...

SUNNY CENTRAL STORAGE 500 / 630 / 720 / 760 / 800 / 850 / 900 / 1000 Technische Daten Sunny Central Storage 500 Sunny Central Storage 630 Sunny Central Storage 720 DC-Anschluss Max. DC-Leistung (bei  $\cos \varphi = 1$ ) 560 kW 713 kW 808 kW Spannungsbereich 430 V bis 850 V 500 V bis 850 V 480 V bis 850 V Bemessungsspannung 449 V 529 V 577 V Max.



## [Sunny Central Storage](#)

The Sunny Central Storage is the central component of the SMA system solution for integration of large-scale storage systems. It is designed to compensate fluctuations in solar



**200kWh  
 Battery Cluster**

energy generation and offers comprehensive grid management services, e.g., automatic frequency control. The battery inverter is optimized for

## SMA , Sunny Central Storage UP , ?????????? ...

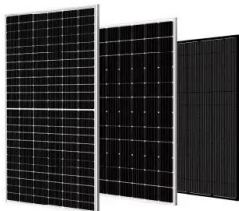
Sunny Central Storage UP SMA Solar Technology AG ?? : ?? ?????: -- ?? : ?? ?????? ?? : ????????????? SMA Solar Technology AG ? ?????? ????????????????????? - KE-3/3K3/5/10KL1EF

Modular design,  
 unlimited combinations in parallel  
**BUILT-IN DUAL FIRE PROTECTION MODULE**



## Sunny Central UP

Sunny Central UP???4400  
 kVA(??1500V)????????????????????PCS?  
 ?2400V?IGBT(1200V?IGBT?2????) ?????? ??????????  
 DC????????????????????????????????????30??FIT?????????  
 ??????????



## Sunny Central 1000CP-XT

For increased power: With its expanded functions and a peak power of 1100 kVA, the new Sunny Central 1000CP XT is now even more powerful. With its proven technology and high power density, the SC 1000CP XT completes the worldwide most successful Sunny Central CP inverter family for PV. The central inverter for outdoor use is optimized for both





## [Sunny Central Storage UP-XT](#)

SUNNY CENTRAL STORAGE UP-XT Technical Data  
SCS 3450 UP-XT SCS 3600 UP-XT Battery side  
(DC) Operating DC voltage range V DC 880 V to  
1500 V 921 V to 1500 V Max. DC current I DC,  
max 4750 A Max. DC short-circuit current 12) 15)  
over 500 kA Fused split busbar 6/6/6 connections  
per pole / fused single busbar 22 connections per

## SMA SUNNY CENTRAL UP SERVICE MANUAL Pdf ...

View and Download SMA SUNNY CENTRAL UP  
service manual online. Test Instructions for the  
Power-Generating Unit Protection Test. SUNNY  
CENTRAL UP inverter pdf manual download. Also  
for: Sunny central storage up, Sc 4000 ...



## [Sunny Central Storage UP-XT](#)

SUNNY CENTRAL STORAGE UP-XT Technical Data  
SCS 3450 UP-XT SCS 3600 UP-XT Battery side  
(DC) Operating DC voltage range V DC 880 V to  
1500 V 921 V to 1500 V Max. DC current I DC,  
max 4750 A Fuse characteristic for battery  
connection - pre-arcing integral limit single DC  
busbar / split

## [Discover Sunny Central Storage UP-S!](#)

Sunny Central Storage UP-S represents a  
significant advancement in battery storage  
inverters, delivering power conversion efficiency  
through its innovative use of SiC  
Mosfet\*semiconductors. It significantly reduces  
thermal stress while maintaining full operational  
capacity, even during grid-forming services,  
setting a new standard for





## [Sunny Central UP](#)

Sunny Boy Storage 2.5; Sunny Boy Storage 3.7 / 5.0 / 6.0; Sunny Island X; Sunny Island 4.4M / 6.0H / 8.0H; Sunny Island 4548-US / 6048-US; Sunny Central Storage 1900 / 2200 / 2475 / 2900; Sunny Central Storage UP; Sunny Central Storage UP-XT; Sunny Central Storage UP-S; Multicliuser-Boxes pour Sunny Island; Batteries solaires. Dos Batteries

## [Find out about the Sunny Central UP!](#)

The Sunny Central UP Plug & Play System combines central inverter, transformer and storage solution in a compact unit. In addition to facilitating transportation, the system enables fast and trouble-free project commissioning in the power plant.



## **Discover the Sunny Central Storage UP-US!**

Battery inverters for large scale storage systems. With an output of up to 3960 kVA and system voltages up to 1500 V DC, the SMA Sunny Central Storage allows for more efficient and flexible system design for battery power plants. A ...

## [Sunny Central UP???](#)

Sunny Boy Storage 3.7 / 5.0 / 6.0; Sunny Boy Storage 2.5; Sunny Island 4.4M / 6.0H / 8.0H; Sunny Island 4548-US / 6048-US; Sunny Central Storage UP; Sunny Central Storage 1900 / 2200 / 2475 / 2900; Sunny Central Storage 2200-US / 2475-US / 2900-US; Sunny Central Storage UP-

XT; Multicluster Boxes for Sunny Island; ???????.  
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### Sunny Central Storage UP

SUNNY CENTRAL STORAGE UP Technische Daten  
SCS 3450 UP SCS 3600 UP Batterieseite (DC) DC-  
Betriebsspannungsbereich V DC 880 V bis 1500  
V 921 V bis 1500 V Max. DC-Strom I DC, max  
4750 A Max. DC Kurzschlussstrom 12) 14) über  
500 kA Abgesicherte geteilte Anschluss-Schiene  
mit 6/6/6 Polen / abgesicherte einfache  
Sammelschiene 22 Anschlüsse ...

### Sunny Central Storage UP-XT

SMA Sunny Central Storage ?????????????? 3067  
kVA, ?????????? 1500 V, ?????? ??????????????????SCS  
UP-XT ?????????????????????????????????????? ???????  
OptiCool ??????????????????????????????



### Central inverter SUNNY CENTRAL

The standard Sunny Central is equipped with a low-voltage transformer, and feeds into the low-voltage grid. Sunny Central HE The Sunny Central HE is a high efficiency photovoltaic inverter. It does not have its own low-voltage transformer. The Sunny Central HE requires an adapted external medium-voltage transformer via which it can feed into

## Sunny Central Storage-US

various types of battery technologies. The Sunny Central Storage is designed to work with the SMA Hybrid Controller and is also available as a medium-voltage block turnkey solution. Sunny Central Storage-US 2200 / 2475 / 2900 SCS-2200-10-US / SCS-2475-10-US / SCS-2900-10-US Efficient o High power density o Max. efficiency of 98.7%



## **Kontakta oss**

Sunny Tripower CORE1; Sunny Tripower 8.0 / 10.0; Hybridväxelriktare. Back Hybridväxelriktare; Sunny Tripower Smart Energy; Batteriväxelriktare. Back Batteriväxelriktare; Översikt; Sunny Central Storage 1900 / 2200 / 2475 / 2900; Batteri till solceller. Back Batteri till solceller; Översikt; SMA Home Storage

## Sunny Central Storage UP

SUNNY CENTRAL STORAGE UP Technische Daten SCS 3450 UP SCS 3600 UP Batterieseite (DC) DC-Betriebsspannungsbereich V DC 880 V bis 1500 V 921 V bis 1500 V Max. DC-Strom I DC, max 4750 A Sicherheits-Charakteristik für den Anschluss von Batterien - Maximales Schmelzintegral eine Sammelschiene / geteilte Sammelschiene 12) 14) 10,75 MA<sup>2</sup>s / 8,0 MA<sup>2</sup>s



## **Sunny Central Storage UP: Batterie-Wechselrichter**

Der SMA Sunny Central Storage ermöglicht mit einer Leistung von bis zu 3960 kVA bei Systemspannungen von bis zu 1500 V DC eine effizientere und flexible Anlagenplanung in

Speicherkraftwerken. Für die Installation von Kundenequipment stehen eine separate Spannungsversorgung und zusätzlicher Platz zur Verfügung.



## SMA presents Sunny Central Flex for solar, battery storage

SMA presents Sunny Central Flex for solar, battery storage and hydrogen electrolyzers at Intersolar 2024. By Jonathan Touriño Jacobo. June 19, 2024. Inverters, Power Plants. Europe. Latest.



## Sunny Central Storage 1900 / 2200 / 2475 / 2900

The Sunny Central Storage is the central component of the SMA system solution for integration of large-scale storage systems. It is designed to compensate fluctuations in solar energy generation and offers comprehensive grid

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## Contact Us

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<https://ian-solar.co.za>