

## European Solar and Energy Storage Solutions

# Angola sunny central storage



## 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>12)</sup> Max. AC current (at 25°C / at 40°C / at 50°C) DC Voltage range for max.

Is sunny central storage compatible with different types of battery technologies?

Thanks to its wide DC voltage range, it is compatible with various types of battery technologies. The Sunny Central Storage is also available as a medium-voltage block solution. Discover the full power class lineup for 1,000 and 1,500 V applications and its benefits: The SMA Sunny Central Storage 2200-US / 2475-US / 2900-US!

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.

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### Sunny Central Storage 2200-/2475-/2900-US

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 for fluctuations in energy generation and offers comprehensive grid management services such as automatic frequency control.

### 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



### 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

## Store solar power & use it broadly » Large Scale , SMA America

Sunny Central Storage UP. The SMA Sunny Central Storage UP battery inverter temporarily stores the surplus solar power in the battery. It performs various grid support functions including frequency, voltage and reactive power control, and it can carry out a black start in the event that the grid collapses.



## Sunny Central Storage 1900 / 2200 / 2475 / 2900 , SMA Solar

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.

## Sunny Central Storage Manuals

Description In this article you will find the Manuals of the Sunny Central Storage Systems. Manuals as pdf files and further documents of the Sunny Central Storage Systems can be found under the following links, which lead to our download area: . SCS UP (SCSxxxxUP) SCS 500 / 630 / 720 / 760 / 800 / 850 / 900 / 1000



## Sunny Central Storage 3450-3950 UP-XT-US

Battery inverters for large scale storage systems. With a maximum output of up to 4600 kVA and system voltages up to 1500 V DC, the SMA

Sunny Central Storage (SCS) UPXT-US allows for more efficient and flexible system design for battery power plants.



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

Sunny Central Storage????????????????SMA????????????????????,????????????????,????????????????,????????????????



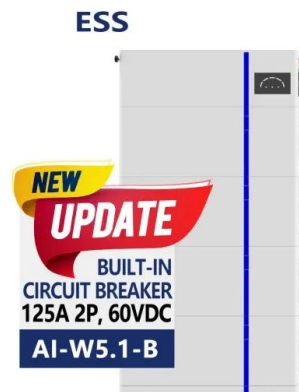
## Sunny Central Storage 1900 / 2200 / 2475 / 2900

Sunny Central Storage????????????????????SMA????????????????????????,????????????????,????????????????,????????????????



## Sunny Central Storage

Batterietechnologien. Der Sunny Central Storage eignet sich ideal für PV-Diesel-Hybridsysteme mit dem SMA Power Plant Manager; er ist auch als schlüsselfertige Lösung in SMA Mittelspannungssystemen erhältlich. Effizient o Hohe Leistungsdichte o Max. Wirkungsgrad von 98,6 % o Geringe Transportkosten (4 Wechselrichter je Standardcontainer)



## 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 Storage

Grid-connected storage systems enable the integration of large amounts of intermittent renewable energy into the utility grid while ensuring maximum grid stability. The Sunny Central Storage is the central component of the SMA system solution for integration of large-scale storage systems. It



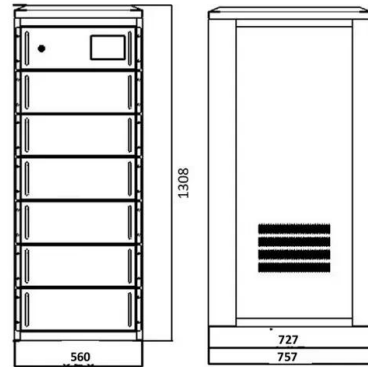
## Sunny Central Storage UP

up to 1500 V DC, the SMA Sunny Central Storage allows for more efficient and flexible system design for battery power plants. A separate voltage supply and additional space are available for the installation of customer equipment. The intelligent cooling system OptiCool ensure smooth operation even in extreme ambient temperature.

## Sunny Central Storage 2200-/2475-/2900-US

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 for fluctuations in energy generation and offers comprehensive grid management ...



## 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

## 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 Sicherungs-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

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 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  $\cos f = 1$ ) 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.



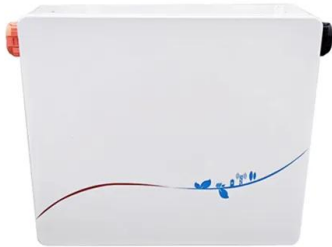
## Discover the Sunny Central Storage UP-US!

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.

## Discover Sunny Central Storage UP-S!

Sunny Central Storage 4600 UP-S delivers enhanced power efficiency, longer system life, and increased profitability. Outstanding Capacity: Up to 4,600 kVA with superior power output. Maximised Efficiency: Operates at 99%

capacity using innovative SiC Mosfet semiconductors.



## Sunny Central Storage UP

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 separate voltage supply and additional space are available for the installation of customer equipment. True 1500 V technology and the intelligent cooling system

## 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.



Standard 20ft containers



Standard 40ft containers

## Store solar power & use it broadly » Large Scale , SMA ...

Sunny Central Storage UP. The SMA Sunny Central Storage UP battery inverter temporarily stores the surplus solar power in the battery. It performs various grid support functions including

frequency, voltage and reactive power control, and ...



## Sunny Central Storage UP-US

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 separate voltage supply and additional space are available for the installation of customer equipment. The intelligent cooling



LPSB48V400H  
48V or 51.2V



## Sunny Central FLEX

The Sunny Central FLEX Power Conversion Unit (PCU) combines superior plant safety with maximized energy yield and minimized logistical and operating risk for large scale power plant projects. With its modular design, the PCU can be configured for a variety of use cases including PV standalone, PV plus DC or AC coupled storage, Standalone

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