



# SUNNY CENTRAL 500HE-US

SC 500HE-US



- 98% CEC efficiency
- Couples to medium voltage external transformer

- Graphical LCD interface
- Sunny WebBox, Modbus® & OPC compatible

- Optional combiner boxes with string monitoring
- Optional DC & AC disconnects
- UL 1741 / IEEE-1547 certified



## SUNNY CENTRAL 500HE-US

The ideal inverter for large scale PV power systems

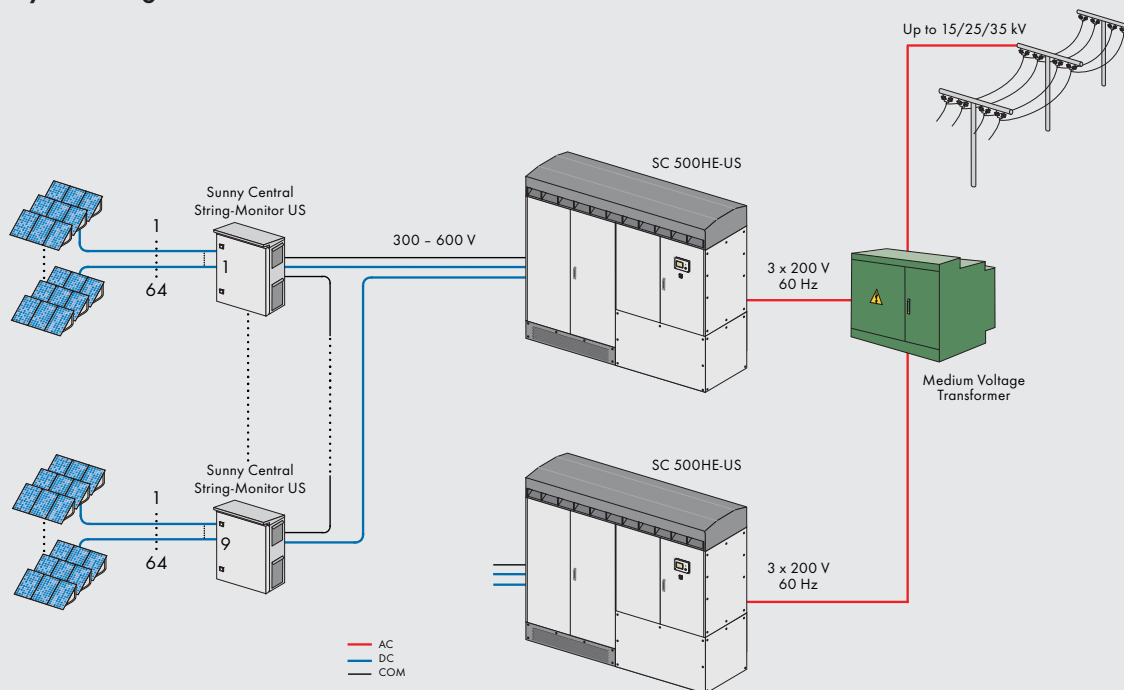
The new Sunny Central 500HE-US couples to an external medium voltage transformer to accommodate long distance power feeds to distribution substations and delivers the highest efficiency available for large PV inverters. An updated user interface features a large LCD that provides a graphical view of the daily plant production as well as the status of the inverter and the utility grid. With the optional Sunny WebBox, users can now choose from either RS485 or Ethernet based communications. Designed for easy installation, operation and performance monitoring, the new SC 500HE-US is the ideal choice for your large scale PV project.

# Technical Data

	<b>Sunny Central 500HE-US</b>
Inverter Technology	True sine wave, high frequency PWM
AC Power Output	500 kW
AC Voltage	200 V (range 180 - 220 V)
AC Frequency	60 Hz
Current THD	< 5%
Power Factor at Nominal Power	> 0.99
AC Output Current Limit	1470 A at 200 V
DC Input Voltage Range	300 - 600 V <sub>DC</sub>
MPP Tracking	330 - 480 V <sub>DC</sub>
PV Start Voltage (Configurable from 300 - 600 V <sub>DC</sub> )	300 V <sub>DC</sub>
Maximum DC Current	1600 A <sub>DC</sub>
Peak Efficiency	98.6%
CEC Weighted Efficiency	98.0%
Power Consumption	<110 W Standby, <1600 W with fans
Ambient Operating Temperature	-13 to 113 °F at full power output up to 122 °F at reduced power
Cooling	Variable-speed forced air (temperature controlled)
Enclosure	NEMA 3R
Dimensions: W x H x D in inches	98 x 90 x 35
Weight	3970 lbs
Certification	UL 1741, IEEE-1547
Type designation	SC 500HE-US

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## Sample System Diagram



Tel. +1 916 625 0870  
 Toll Free +1 888 4 SMA USA  
[www.SMA-America.com](http://www.SMA-America.com)

**SMA America, LLC**