



SUNNY CENTRAL 250U / 500U



- 97% CEC weighted efficiency
- Integrated isolation transformer
- Graphical LCD interface

- Sunny WebBox compatible
- Optional combiner boxes

- Install indoors or out
- UL 1741/IEEE-1547 compliant



SUNNY CENTRAL 250U / 500U

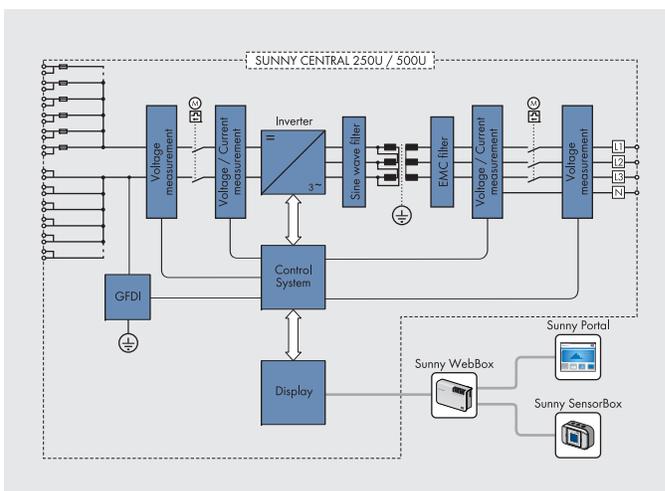
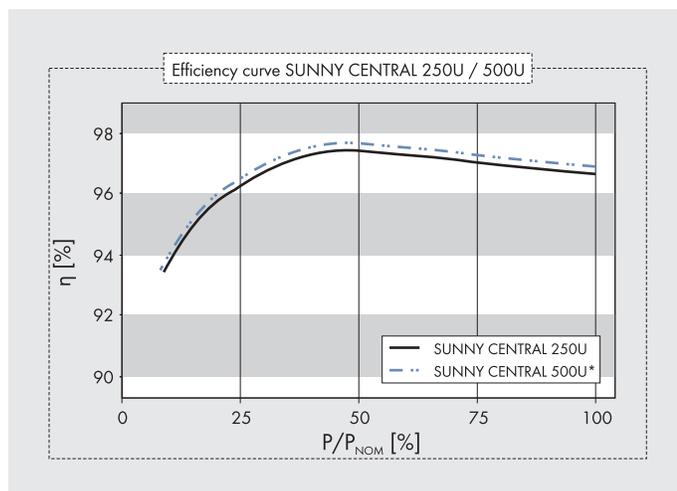
The ideal inverters for large scale PV power systems

The new Sunny Centrals have integrated isolation transformers and deliver the highest efficiencies available for large PV inverters. A completely 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 Sunny Central is the ideal choice for your large scale PV project.

Technical Data

	Sunny Central 250U	Sunny Central 500U
Input data		
Max. PV power (recommended)	295 kW	580 kW
DC voltage range MPPT	330 V - 600 V	330 V - 600 V
PV start voltage (Configurable from 300 - 600 V)	400 V	400 V
Max. permissible DC voltage	600 V	600 V
Max. permissible DC current	800 A	1600 A
Number of DC inputs / connection point	6 / DC fuse	9 / DC fuse
Output data		
Nominal AC output power	250 kW	500 kW
Operating grid voltage	480 V WYE / Δ^*	480 V WYE / Δ
Nominal AC current	300 A (@ 480 V)	600 A (@ 480 V)
AC frequency (nominal)	60 Hz	60 Hz
Power factor	> 0.99	> 0.99
Harmonic distortion of grid current	< 5%	< 5%
Power consumption		
Internal consumption in operation	< 1000 W	< 1500 W
Internal consumption in Standby	< 69 W	< 69 W
Mechanics		
Width / height / depth (in)	110 / 80 / 33	140 / 80 / 37
Weight	4200 lbs	7165 lbs
Efficiency		
Peak efficiency	97.5%	97.4%
CEC weighted efficiency	97.0%	97.0%
Euro-Eta	96.6%	96.9%
Permits		
Certificates	UL 1741, UL 1998, IEEE 1547	UL 1741, UL 1998, IEEE 1547
EMC	FCC Part 15 Class A	FCC Part 15 Class A
Ambient conditions		
Ambient temperature	-4 °F to 113 °F	-4 °F to 113 °F
Max. Temperature for P_{nom}	113 °F	113 °F
Enclosure	NEMA 3R	NEMA 3R
Rel. humidity	15% ... 95%	15% ... 95%
Interfaces		
Display	LCD	LCD
Communication (Sunny WebBox, optional)	Ethernet, analog, GSM	Ethernet, ISDN, GSM
Connection Sunny String-Monitor U	RS485	RS485
System monitoring	Sunny Portal	Sunny Portal
* Quarter 1, 2010		
Type designation	SC 250U	SC 500U

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