



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 / 500U

	SC 250U	SC 500U
Inverter Technology	True sine wave, high frequency PWM with galvanic isolation	True sine wave, high frequency PWM with galvanic isolation
AC Power Output (Nominal)	250 kW	500 kW
AC Voltage (Nominal)	480 V _{AC} WYE	480 V _{AC} WYE / Δ
AC Frequency (Nominal)	60 Hz	60 Hz
Current THD	< 5%	< 5%
Power Factor (Nominal)	> 0.99	> 0.99
AC Output Current Limit	300 A _{AC} @ 480 V _{AC}	600 A _{AC} (@ 480 V _{AC})
DC Input Voltage Range	300 - 600 V _{DC}	300 - 600 V _{DC}
MPP Tracking	300 - 600 V _{DC}	300 - 600 V _{DC}
PV Start Voltage (Configurable from 300 - 600 V _{DC})	400 V _{DC}	400 V _{DC}
Maximum DC Current	800 A _{DC}	1600 A _{DC}
Peak Efficiency	97.5%	97.4%
CEC Weighted Efficiency	97%	97%
Power Consumption	69 W Standby, <1000 W with fans	69 W Standby, <1500 W with fans
Ambient Operating Temperature	-13 to 113 °F at full power output up to 122 °F at reduced power	-13 to 113 °F at full power output up to 122 °F at reduced power
Cooling	Variable-speed forced air	Variable-speed forced air
Enclosure	NEMA 3R	NEMA 3R
Dimensions: W x H x D in inches	110 x 80 x 33	140 x 80 x 37
Weight	4200 lbs	7165 lbs
Compliance	UL 1741, IEEE-1547	UL 1741, IEEE-1547

Optional Sunny WebBox



View daily and archived performance data graphically on **Sunny Portal**

Integrated web server for **remote online access** to all current data from any PC



Integrated FTP server for data storage and download to a PC



Memory expansion and data transmission to a PC using a removable SD card

Easily view data in analysis programs

