

PV

Grid-Connected Inverters

SunnyAccess Series



SUNGROW®

SUNGROW POWER SUPPLY CO., LTD.

ABOUT SUNGROW

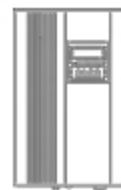
SUNGROW POWER SUPPLY CO., LTD is a company specialized in designing and manufacturing inverters of both photovoltaic (PV) systems and wind systems for different applications. We fully understand that the inverter is one of the key elements affecting the performance and energy yield of PV and wind systems. We, therefore, are engaging in research, develop, manufacture and market a wide range of high-quality inverters for the world. In order to achieve our goals, SUNGROW continues to look for ways to improve our services and technical capabilities to meet the needs of our clients and the markets.

ABOUT US

SUNGROW POWER SUPPLY CO., LTD, founded in 1997 by Mr. Cao Renxian, a former lecturer at Hefei University of Technology, has grown into a reputable high-tech enterprise after 10 years of development. In July 2007, we successfully introduced foreign investment and received a domestic capital injection of RMB 60 million, transforming into a Sino-foreign joint ventured enterprise. Our major products including various types of renewable energy power supplies. Our company has been designated as a "High-Tech Enterprise of Anhui Province" and has been awarded various honorary titles, such as "Brand Product of Anhui", "Outstanding Non-state-owned Technological Enterprise of Anhui Province", and "Outstanding Innovative Enterprise". Sungrow is also affiliated with the Hefei Renewable Energy Power Generation Engineering Technology Research Center to develop related products for RES.

MISSION OF SUNGROW

As the pollution problems caused by oil and coal becomes more and more worsen, the business of renewable energy industry becomes more important than ever. SUNGROW, as the leading specialist in the inverter technologies and materials, we are committed to research, develop and adopting international standards to manufacture the best quality products with unmatched performance.



PV

Grid-Connected Inverter

Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- without transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- adjustable operation parameters



SG1K5TL
SG2K5TL

MODEL

SG1K5TL

SG2K5TL

■ DC INPUT

Max. DC Voltage	450Vdc	
MPPT Range	150~380Vdc	
Max. DC Power	1700Wp	2800Wp
Max. Input Current	10A	20A
No. of Strings	1	2

■ AC OUTPUT

Output Power	1500W	2500W
Operating Voltage	180~260Vac	
Operating Frequency	50/60Hz	
Current THD	< 3% (at nominal power)	
Power Factor	≥0.99 (at nominal power)	

■ SYSTEM

Max. Efficiency	95%	
Euro Efficiency	93%	
Protection Degree	IP41 (indoor)	
Operating Temp.	-20~+40°C	
Ventilation Method	natural cooling	
Humidity	0~95%, non-condensing	
Acoustic Noise Level	<40dBA	
Comm. Interfaces	RS485	
Optional	ethernet/GPRS	
Display	LCD	

■ MECHANICAL DATA

W H D	288 417 126 (mm)	288 467 126 (mm)
Weight	10.3kg	11.3kg

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Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- with transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- adjustable operation parameters

MODEL

SG3K

■ DC INPUT

Max. DC Voltage	450Vdc
MPPT Range	200~380Vdc
Max. DC Power	3300Wp
Max. Input Current	18A
No. of Strings	2

■ AC OUTPUT

Output Power	3000W
Operating Voltage	180~260Vac
Operating Frequency	50/60Hz
Current THD	< 3% (at nominal power)
Power Factor	> 0.99 (at nominal power)

■ SYSTEM

Max. Efficiency	94%
Euro Efficiency	93%
Protection Degree	IP65 (outdoor)
Operating Temp.	-25~+60°C
Ventilation Method	natural cooling
Humidity	0~95%, non-condensing
Acoustic Noise Level	<40dBA
Comm. Interfaces	RS485
Optional	ethernet/GPRS
Display	LCD

■ MECHANICAL DATA

W H D	490 380 225 (mm)
Weight	44kg



SG3K

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PV Grid-Connected Inverter

Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- with transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- adjustable operation parameters



SG5K-B
SG6K-B

MODEL

SG5KB

SG6KB

■ DC INPUT

Max. DC Voltage	780Vdc	
MPPT Range	300~650Vdc	320~650Vdc
Max. DC Power	5500Wp	6600Wp
Max. Input Current	20A	
No. of Strings	4	

■ AC OUTPUT

Output Power	5000W	6000W
Operating Voltage	180~260Vac	
Operating Frequency	50/60Hz	
Current THD	< 3% (at nominal power)	
Power Factor	≥0.99 (at nominal power)	

■ SYSTEM

Max. Efficiency	94%	
Euro Efficiency	93%	
Protection Degree	IP65 (outdoor)	
Operating Temp.	-25~+60°C	
Ventilation Method	fan cooling	
Humidity	0~95%, non-condensing	
Acoustic Noise Level	<40dBA	
Comm. Interfaces	RS485	
Optional	ethernet/GPRS	
Display	LCD	

■ MECHANICAL DATA

W H D	410 580 280 (mm)	
Weight	65kg	

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PV Grid-Connected Inverter

Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- with transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- adjustable operation parameters



SG5K-C
SG6K-C

MODEL

SG5KC

SG6KC

DC INPUT

Max. DC Voltage	780Vdc	
MPPT Range	200~650Vdc	220~650Vdc
Max. DC Power	5500Wp	6600Wp
Max. Input Current	25A	
No. of Strings	4	

AC OUTPUT

Output Power	5000W	6000W
Operating Voltage	180~260Vac	
Operating Frequency	50/60Hz	
Current THD	< 3% (at nominal power)	
Power Factor	≥ 0.99 (at nominal power)	

SYSTEM

Max. Efficiency	94%	
Euro Efficiency	93%	
Protection Degree	IP20 (indoor)	
Operating Temp.	-20~+40°C	
Ventilation Method	fan cooling	
Humidity	0~95%, non-condensing	
Acoustic Noise Level	<40dBA	
Comm. Interfaces	RS485	
Optional	ethernet/GPRS	
Display	LCD	

MECHANICAL DATA

W H D	356 569 243 (mm)	
Weight	57kg	

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PV

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Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- with transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- adjustable operation parameters

MODEL

SG10K3

■ DC INPUT

Max. DC Voltage	450Vdc
MPPT Range	220~380Vdc
Max. DC Power	11kWp
Max. Input Current	50A
No. of Strings	4

■ AC OUTPUT

Output Power	10kW
Operating Voltage	330~450Vac
Operating Frequency	50/60Hz
Current THD	< 3% (at nominal power)
Power Factor	≥ 0.99 (at nominal power)

■ SYSTEM

Max. Efficiency	94.5%
Euro Efficiency	93.5%
Protection Degree	IP20 (indoor)
Operating Temp.	-20~+40℃
Ventilation Method	fan cooling
Humidity	0~95%, non-condensing
Acoustic Noise Level	<60dBA
Comm. Interfaces	RS485
Optional	ethernet/GPRS
Display	LCD

■ MECHANICAL DATA

W H D	530 900 460 (mm)
Weight	150kg



SG10K3

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PV

Grid-Connected Inverter

Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- with transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- adjustable operation parameters

MODEL

SG30K3

■ DC INPUT

Max. DC Voltage	450Vdc
MPPT Range	220~380Vdc
Max. DC Power	33kWp
Max. Input Current	150A
No. of Strings	4

■ AC OUTPUT

Output Power	30kW
Operating Voltage	330~450Vac
Operating Frequency	50/60Hz
Current THD	< 3% (at nominal power)
Power Factor	≥ 0.99 (at nominal power)

■ SYSTEM

Max. Efficiency	94.5%
Euro Efficiency	93.5%
Protection Degree	IP20 (indoor)
Operating Temp.	-20~+40℃
Ventilation Method	fan cooling
Humidity	0~95%, non-condensing
Acoustic Noise Level	<60dBA
Comm. Interfaces	RS485
Optional	ethernet/GPRS
Display	LCD

■ MECHANICAL DATA

W H D	820 1964 646 (mm)
Weight	400kg



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PV

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Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- with transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- adjustable operation parameters

MODEL

SG50K3

■ DC INPUT

Max. DC Voltage	880Vdc
MPPT Range	450~820Vdc
Max. DC Power	55kWp
Max. Input Current	130A
No. of Strings	4

■ AC OUTPUT

Output Power	50kW
Operating Voltage	330~450Vac
Operating Frequency	50/60Hz
Current THD	< 3% (at nominal power)
Power Factor	≥ 0.99 (at nominal power)

■ SYSTEM

Max. Efficiency	95%
Euro Efficiency	94%
Protection Degree	IP20 (indoor)
Operating Temp.	-20~+40℃
Ventilation Method	Fan cooling
Humidity	0~95%, non-condensing
Acoustic Noise Level	<60dBA
Comm. Interfaces	RS485
Optional	ethernet/GPRS
Display	LCD

■ MECHANICAL DATA

W H D	820 1964 646 (mm)
Weight	700kg



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PV

Grid-Connected Inverter

Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- with low frequency transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- can be continuously operating at rated power without derating under 55°C
- designed to suit for critical grid environment
- standards complied: EN61000-6-2, EN61000-6-4, EN50178, IEC62109-1, IEC62109-2, RD1663/2000

MODEL

SG100K3

■ DC INPUT

Max. DC Voltage	880Vdc
MPPT Range	480~820Vdc
Max. DC Power	110kWp
Max. Input Current	250A
No. of Strings	4

■ AC OUTPUT

Output Power	100kW
Operating Voltage	330~440Vac
Operating Frequency	50/60Hz
Current THD	< 3% (at nominal power)
Power Factor	≥ 0.99 (at nominal power)

■ SYSTEM

Max. Efficiency	96.2%
Euro Efficiency	95.2%
Protection Degree	IP20 (indoor)
Operating Temp.	-20~+55°C
Ventilation Method	fan cooling
Humidity	0~95%, non-condensing
Acoustic Noise Level	<60dBA
Comm. Interfaces	RS485
Optional	ethernet/GPRS
Display	LCD

■ MECHANICAL DATA

W H D	1020 1964 770 (mm)
Weight	800kg



SG100K3

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PV Grid-Connected Inverter

Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- with low frequency transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- designed to suit for critical grid environment

MODEL

SG250K3

DC INPUT

Max. DC Voltage	880Vdc
MPPT Range	450~820Vdc
Max. DC Power	275kWp
Max. Input Current	600A
No. of Strings	8

AC OUTPUT

Output Power	250kW
Operating Voltage	400Vac
Operating Frequency	50/60Hz
Current THD	< 3% (at nominal power)
Power Factor	≥ 0.99 (at nominal power)

SYSTEM

Max. Efficiency	96.5%
Euro Efficiency	95.4%
Protection Degree	IP20 (indoor)
Operating Temp.	-20~+40℃
Ventilation Method	fan cooling
Humidity	0~95%, non-condensing
Acoustic Noise Level	<60dBA
Comm. Interfaces	RS485
Optional	ethernet/GPRS
Display	LCD touch screen

MECHANICAL DATA

W H D	2220 2180 850 (mm)
Weight	1700kg



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PV

Grid-Connected Inverter

Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- with low frequency transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- designed to suit for critical grid environment

MODEL

SG250KTL

■ DC INPUT

Max. DC Voltage	880Vdc
MPPT Range	450~820Vdc
Max. DC Power	275kWp
Max. Input Current	600A
No. of Strings	8

■ AC OUTPUT

Output Power	270kW
Operating Voltage	270Vac
Operating Frequency	50/60Hz
Current THD	< 3% (at nominal power)
Power Factor	> 0.99 (at nominal power)

■ SYSTEM

Max. Efficiency	97.5%
Euro Efficiency	97%
Protection Degree	IP20 (indoor)
Operating Temp.	-20~+40°C
Ventilation Method	fan cooling
Humidity	0~95%, non-condensing
Acoustic Noise Level	<60dBA
Comm. Interfaces	RS485
Optional	ethernet/GPRS
Display	LCD touch screen

■ MECHANICAL DATA

W H D	1400 2180 850 (mm)
Weight	950kg



SG250KTL

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PV

Grid-Connected Inverter

Features

- high conversion efficiency
- advanced technology for maximum power point tracking (MPPT)
- >99% MPPT efficiency
- wide input voltage range
- with low frequency transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- designed to suit for critical grid environment

MODEL

SG500K3

DC INPUT

Max. DC Voltage	880Vdc
MPPT Range	480~820Vdc
Max. DC Power	550kWp
Max. Input Current	1200A
No. of Strings	16

AC OUTPUT

Output Power	500kW
Operating Voltage	400Vac
Operating Frequency	50/60Hz
Current THD	< 3% (at nominal power)
Power Factor	> 0.99 (at nominal power)

SYSTEM

Max. Efficiency	96.7%
Euro Efficiency	95.6%
Protection Degree	IP20 (indoor)
Operating Temp.	-20~+40°C
Ventilation Method	fan cooling
Humidity	0~95%, non-condensing
Acoustic Noise Level	<60dBA
Comm. Interfaces	RS485
Optional	ethernet/GPRS
Display	LCD touch screen

MECHANICAL DATA

W H D	2800 2180 850 + 1800 2180 1200 (mm)
Weight	3300kg



SG500K3

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PV Grid-Connected Inverter

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- >99% MPPT efficiency
- wide input voltage range
- with low frequency transformer
- protection against reverse polarity, voltage surges, short circuits, insulation defects
- powerful communication interfaces
- integrated data logger available
- easy operation and installation
- easy-to-set multilingual LCD display
- designed to suit for critical grid environment

MODEL

SG500KTL

DC INPUT

Max. DC Voltage	880Vdc
MPPT Range	480~820Vdc
Max. DC Power	550kWp
Max. Input Current	1200A
No. of Strings	16

AC OUTPUT

Output Power	500kW
Operating Voltage	270Vac
Operating Frequency	50/60Hz
Current THD	< 3% (at nominal power)
Power Factor	≥ 0.99 (at nominal power)

SYSTEM

Max. Efficiency	98.5%
Euro Efficiency	98.3%
Protection Degree	IP20 (indoor)
Operating Temp.	-20~+40℃
Ventilation Method	fan cooling
Humidity	0~95%, non-condensing
Acoustic Noise Level	<60dBA
Comm. Interfaces	RS485
Optional	ethernet/GPRS
Display	LCD touch screen

MECHANICAL DATA

W D H	2800 2180 850 (mm)
Weight	1800kg



SG500KTL

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