



**SANDI Electric Co.,Ltd is an international PV enterprise, which is located in the "capital of China's electrical appliances" Wenzhou, which is dedicated to the new energy source and electrical source scientific research, development, manufacture and service. In the last of 15years, it constantly provided solar PV inverter and the perfect power conversion and control solution to the solar PV energy generation.**

**Sandi which is widely recognized by customers is based on entirely varieties, high quality and service first. The R&D and engineering technicians that have multi-year experiences in product design, product implementation and engineering service and can manufacture the solar energy generation products with the international competition capability reaches advanced level in the world. The product passed CE and SAA (AS4777&AS3100) and G83/1 and G59 and ISO9001 certification, the international authoritative certification and have been highly recognized by the international market.**

**SANDI Electric Company takes technology as forerunner, keeps long-term, good research cooperation with all universities, fetches in and absorbs international advanced technology and builds strictly quality control system.**

**We will take the work objective of "unremitting exploration, endeavor and innovation, honesty and dedication, perfect and practicality" and quality guideline of "criterion management, intensive manufacture, quality first, service with all hearts". Seek excellence, value innovation!**

**We will ceaselessly struggle and create refulgence with you together.**

# PREFACE

**SANDI** are engaged in researching, developing, producing and selling a wide range of high-quality inverters for the world. **SANDI** Continues to look for ways to improve our services and technical capabilities to meet the demands of our clients and the markets in order to achieve our goals, and afford green power for the area far away from utility-grid.

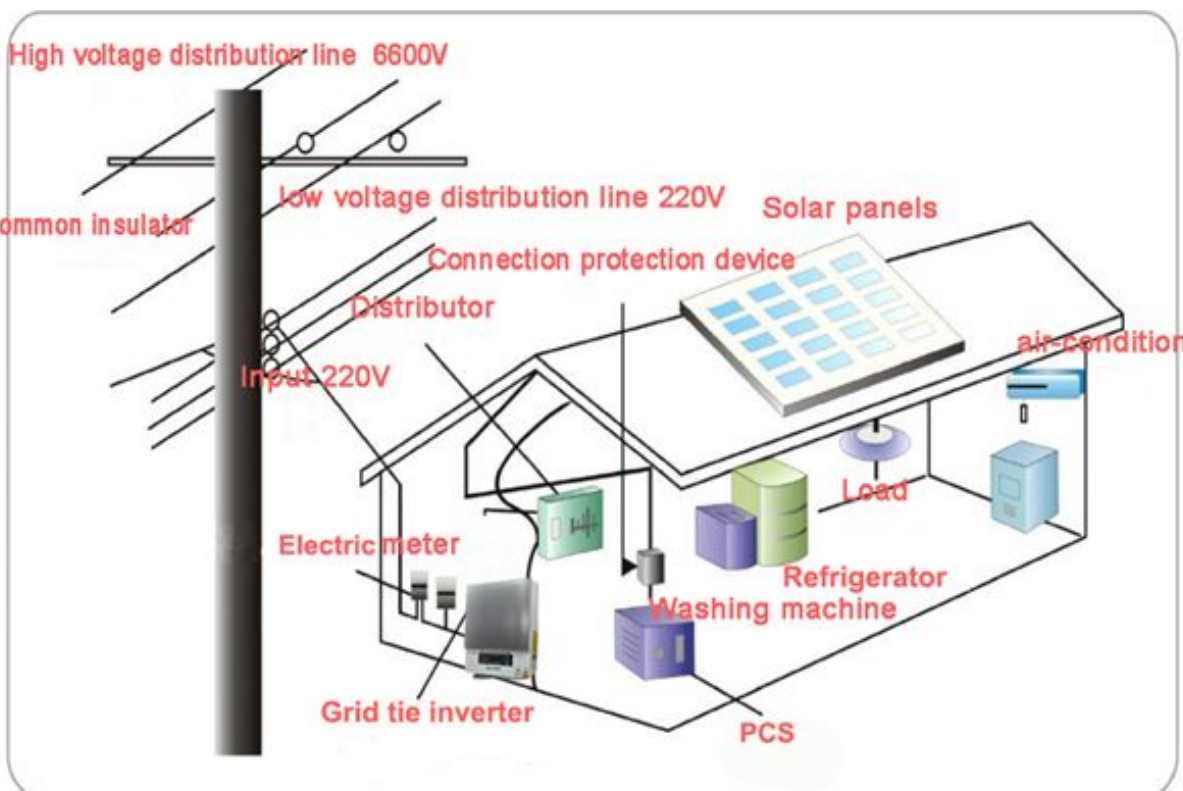
**SDS Series Grid Tie Solar Inverter** with higher efficiency, lower loss, higher reliability which are high-quality products are developed and produced by our company. The price ratio of **SDS** is the most competitive one among the green power in the market.

**SDS** series convert renewable, advanced power (such as solar, wind, fuel cells, micro turbines, batteries ) into electrical power that can be used as a primary or backup power source for homes and small businesses to Industrial and utility applications.

**PV grid-connected power system** includes **PV** modules, grid-connected inverter, meter and power switch board. The **PV** modules convert the solar energy to the **DC** power, then the grid-connected inverter the **DC** power to the sine wave **AC** power which has the same frequency and phase with the grid voltage. The **AC** power feed in the grid partly and the other powers supply the local loads.



- **Wide DC input voltage range**
- **DSP controller**
- **High efficiency by using advanced IPM**
- **MPPT (Maximum Power Point Tracking) technology**
- **Transformer-less High efficiency**
- **In accordance with international standards**
- **Quick and easy installment**
- **Operation parameters can be adjusted via LCD and keys**
- **The perfect Protection Function**
- **Designed to suitable for critical grid environment**





# SDS-1000W Single Phase

Model		SDS-1000W
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	DC100~500V
	Max. DC Voltage	550VDC
	Start Voltage	180V
	Recommend PV Array Open Circuit Voltage	200~400V
	Control System	MPPT
	Number of MPPT Tracker	2
AC Output	Rated Output Power	1000W
	Max. AC Output Current	4.5A
	Rated Grid Voltage	230VAC
	Grid Voltage range	AC 185~264V (1 phase)
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	1 phase 2 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP65
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<25dB
	Data Interfaces	External RS232C/RS485
	Display	LCD
	Dimensions(W*H*D)	442*380*110mm
Weight	15kgs	
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-1500W Single Phase

Model		SDS-1500W
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	DC100~500V
	Max. DC Voltage	550VDC
	Start Voltage	180V
	Recommend PV Array Open Circuit Voltage	200~400V
	Control System	MPPT
	Number of MPPT Tracker	2
AC Output	Rated Output Power	1500W
	Max. AC Output Current	6.8A
	Rated Grid Voltage	230VAC
	Grid Voltage range	AC 185~264V (1 phase)
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	1 phase 2 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP65
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<25dB
	Data Interfaces	External RS232C/RS485
	Display	LCD
	Dimensions(W*H*D)	442*380*110mm
Weight	15kgs	
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-2000W Single Phase

Model		SDS-2000W
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	DC100~500V
	Max. DC Voltage	550VDC
	Start Voltage	180V
	Recommend PV Array Open Circuit Voltage	200~400V
	Control System	MPPT
	Number of MPPT Tracker	2
AC Output	Rated Output Power	2000W
	Max. AC Output Current	9A
	Rated Grid Voltage	230VAC
	Grid Voltage range	AC 185~264V (1 phase)
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	1 phase 2 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP65
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<25dB
	Data Interfaces	External RS232C/RS485
	Display	LCD
	Dimensions(W*H*D)	442*380*110mm
Protection	Weight	15.5kgs
	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-2500W Single Phase

Model		SDS-2500W
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	DC100~500V
	Max. DC Voltage	550VDC
	Start Voltage	180V
	Recommend PV Array Open Circuit Voltage	200~400V
	Control System	MPPT
	Number of MPPT Tracker	2
AC Output	Rated Output Power	2500W
	Max. AC Output Current	12A
	Rated Grid Voltage	230VAC
	Grid Voltage range	AC 185~264V (1 phase)
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	1 phase 2 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP65
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<25dB
	Data Interfaces	External RS232C/RS485
	Display	LCD
	Dimensions(W*H*D)	442*380*110mm
Protection	Weight	15.5kgs
	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	



# SDS-3000W Single Phase

Model		SDS-3000W
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	DC100~500V
	Max. DC Voltage	550VDC
	Start Voltage	180V
	Recommend PV Array Open Circuit Voltage	200~400V
	Control System	MPPT
	Number of MPPT Tracker	2
AC Output	Rated Output Power	3000W
	Max. AC Output Current	13.6A
	Rated Grid Voltage	230VAC
	Grid Voltage range	AC 185~264V (1 phase)
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	1 phase 2 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP65
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<25dB
	Data Interfaces	External RS232C/RS485
	Display	LCD
	Dimensions(W*H*D)	442*380*110mm
Protection	Weight	16kgs
	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-4000W Single Phase

Model		SDS-4000W
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	DC100~500V
	Max. DC Voltage	550VDC
	Start Voltage	180V
	Recommend PV Array Open Circuit Voltage	200~400V
	Control System	MPPT
	Number of MPPT Tracker	2
AC Output	Rated Output Power	4000W
	Max. AC Output Current	18A
	Rated Grid Voltage	230VAC
	Grid Voltage range	AC 185~264V (1 phase)
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	1 phase 2 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP65
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<25dB
	Data Interfaces	External RS232C/RS485
	Display	LCD
	Dimensions(W*H*D)	442*380*110mm
Protection	Weight	17kgs
	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-5000W

Model		SDS- 5000W	
Isolation type		Transformer-less	
DC Input	MPPT Voltage Range	DC100~500V	DC200 ~ 820V
	Max. DC Voltage	550VDC	850VDC
	Start Voltage	180V	400Vdc
	Recommend PV Array Open Circuit Voltage	200~400V	620Vdc
	Control System	MPPT	
AC Output	Rated Output Power	5000W	
	Max. AC Output Current	22.7A	
	Grid Rate voltage	AC230V	AC380V
	Grid Voltage range	AC 185~264V	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz (Grid frequency)	
	Phases	1 phase 2 wire	3 phase 4 wire
	Power Factor	>0.95	
	Current THD	At rated power and in the sine wave <3%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	97%	
	Structure	Protection Class	IP20
Cooling system		Natural cooling	
Power Consumption at Night		0W	
Noise		<50dB	
Data Interfaces		External RS232C/RS485	
Display		LCD	
Dimensions(W*H*D)		640*375*285mm	
Weight		28kgs	
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.	
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.	
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.	
	Operation temperature	-10℃~40℃ (55℃)	
	Stored temperature	-20℃~65℃	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3-years quality warranty		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,		
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000		

# SDS-6000W

Model		SDS- 6000W	
Isolation type		Transformer-less	
DC Input	MPPT Voltage Range	DC100~500V	DC200 ~ 820V
	Max. DC Voltage	550VDC	850VDC
	Start Voltage	180V	400Vdc
	Recommend PV Array Open Circuit Voltage	200~400V	620Vdc
	Control System	MPPT	
AC Output	Rated Output Power	6000W	
	Max. AC Output Current	27.3A	
	Rated Grid voltage	AC230V	AC380V
	Grid voltage range	AC 185 ~ 264V	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz (Grid frequency)	
	Phases	1 phase 2 wire	3 phase 4 wire
	Power Factor	>0.95	
	Current THD	At rated power and in the sine wave <3%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	97%	
Structure	Protection Class	IP20	
	Cooling system	Natural cooling	
	Power Consumption at Night	0W	
	Noise	<50dB	
	Data Interfaces	External RS232C/RS485	
	Display	LCD	
	Dimensions(W*H*D)	680*410*325mm	
Protection	Weight	33kgs	36kgs
	Inverter	Input overvoltage, output short circuit, overheat, output DC component.	
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.	
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.	
	Operation temperature	-10℃~40℃ (55℃)	
	Stored temperature	-20℃~65℃	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3-years quality warranty		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,		
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000		

# SDS-7000W

Model		SDS-7000W	
Isolation type		Transformer-less	
DC Input	MPPT Voltage Range	DC100~550V	DC200 ~ 820V
	Max. DC Voltage	550VDC	850VDC
	Start Voltage	180V	400Vdc
	Recommend PV Array Open Circuit Voltage	200~400V	620Vdc
	Control System	MPPT	
AC Output	Rated Output Power	7000W	
	Max. AC Output Current	31.8A	
	Rated Grid voltage	AC230V	AC380V
	Grid Voltage range	AC 185 ~ 264V	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz (Grid frequency)	
	Phases	1 phase 2 wire	3 phase 4 wire
	Power Factor	>0.95	
	Current THD	At rated power and in the sine wave <3%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	97%	
Structure	Protection Class	IP20	
	Cooling system	Natural cooling	
	Power Consumption at Night	0W	
	Noise	<50dB	
	Data Interfaces	External RS232C/RS485	
	Display	LCD	
	Dimensions(W*H*D)	360*270*630mm	
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.	
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.	
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.	
	Operation temperature	-10℃~40℃ (55℃)	
	Stored temperature	-20℃~65℃	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3-years quality warranty		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,		
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000		

# SDS-8000W

Model		SDS-8000W	
Isolation type		Transformer-less	
DC Input	MPPT Voltage Range	DC100~550V	DC200 ~ 820V
	Max. DC Voltage	550VDC	850VDC
	Start Voltage	180V	400Vdc
	Recommend PV Array Open Circuit Voltage	200~400V	620Vdc
	Control System	MPPT	
AC Output	Rated Output Power	8000W	
	Max. AC Output Current	36.4A	
	Rated Grid voltage	AC230V	AC380V
	Grid Voltage range	AC 185 ~ 264V	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz	
	Phases	1 phase 2 wire	3 phase 4 wire
	Power Factor	>0.95	
	Current THD	At rated power and in the sine wave <3%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	97%	
	Structure	Protection Class	IP20
Cooling system		Natural cooling	
Power Consumption at Night		0W	
Noise		<50dB	
Data Interfaces		External RS232C/RS485	
Display		LCD	
Dimensions(W*H*D)		410*555*745mm	
Weight		63kgs	66kgs
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.	
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.	
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.	
	Operation temperature	-10℃~40℃ (55℃)	
	Stored temperature	-20℃~65℃	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3-years quality warranty		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,		
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000		

# SDS-9000W

Model		SDS-9000W	
Isolation type		Transformer-less	
DC Input	MPPT Voltage Range	DC100~550V	DC200 ~ 820V
	Max. DC Voltage	550VDC	850VDC
	Start Voltage	180V	400Vdc
	Recommend PV Array Open Circuit Voltage	200~400V	620Vdc
	Control System	MPPT	
AC Output	Rated Output Power	9000W	
	Max. AC Output Current	40.2A	
	Rated Grid voltage	AC230V	AC380V
	Grid Voltage range	AC 185 ~ 264V	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz	
	Phases	1 phase 2 wire	3 phase 4 wire
	Power Factor	>0.95	
	Current THD	At rated power and in the sine wave <3%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	97%	
Structure	Protection Class	IP20	
	Cooling system	Natural cooling	
	Power Consumption at Night	0W	
	Noise	<50dB	
	Data Interfaces	External RS232C/RS485	
	Display	LCD	
	Dimensions(W*H*D)	410*555*745mm	
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.	
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.	
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.	
	Operation temperature	-10℃~40℃ (55℃)	
	Stored temperature	-20℃~65℃	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3-years quality warranty		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,		
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000		

# SDS-10KW

Model		SDS-10KW	
Isolation type		Transformer-less	
DC Input	MPPT Voltage Range	200 ~ 820Vdc	
	Max. DC Voltage	850VDC	
	Start Voltage	400Vdc	
	Rated voltage	620Vdc	
	Control System	MPPT	
AC Output	Rated Output Power	10KW	
	Max. AC Output Current	26.7A	
	Rated Grid voltage	AC380V	
	Grid Voltage range	AC 342 ~ 418 V	
	Normal Grid Frequency	50/60Hz	
	Phases	3 phase 4 wire	
	Power Factor	>0.95	
	Current THD	At rated power and in the sine wave <3%	
	Control System	MPPT	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	97%	
Structure	Protection Class	IP20	
	Cooling system	Natural cooling	
	Power Consumption at Night	0W	
	Noise	<60dB	
	Data Interfaces	External RS232C/RS485	
	Display	LCD	
	Dimensions(W*H*D)	460*700*840mm	
	Weight	67.5kgs	70.5kgs
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.	
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.	
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.	
	Operation temperature	-20℃~40℃ (55℃)	
	Stored temperature	-20℃~65℃	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3-years quality warranty		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,		
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000		



# SDS-12KW

Model		SDS- 12KW
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	200 ~ 820Vdc
	Max. DC Voltage	850VDC
	Start Voltage	400Vdc
	Recommend PV Array Open Circuit Voltage	620Vdc
	Control System	MPPT
AC Output	Output Power	12KW
	Max. AC Output Current	31A
	Rated Grid voltage	AC380V
	Grid voltage range	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	3 phase 4 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP20
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<60dB
	Data Interfaces	External RS232C/RS485
	Display	LCD
	Dimensions(W*H*D)	550*1300*700mm
Protection	Weight	115kgs
	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-15KW

Model		SDS- 15KW
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	200 ~ 820Vdc
	Max. DC Voltage	850VDC
	Start Voltage	400Vdc
	Recommend PV Array Open Circuit Voltage	620Vdc
	Control System	MPPT
AC Output	Rated Output Power	15KW
	Rated Grid voltage	AC380V
	Grid voltage range	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	3 phase 4 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP20
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<60dB
	Data Interfaces	External RS232C/RS485
	Display	LCD
	Dimensions(W*H*D)	550*1300*700mm
	Weight	115kgs
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-18KW

Model		SDS-18KW
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	200 ~ 820Vdc
	Max. DC Voltage	850VDC
	Start Voltage	400Vdc
	Recommend PV Array Open Circuit Voltage	620Vdc
	Control System	MPPT
AC Output	Rated Output Power	18KW
	Rated Grid Voltage	AC380V
	Grid voltage range	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	3 phase 4 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
	Structure	Protection Class
Cooling system		Natural cooling
Power Consumption at Night		0W
Noise		<60dB
Data Interfaces		External RS232C/RS485
Display		LCD
Dimensions(W*H*D)		550*1300*700mm
Weight		130kgs
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied : EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-20KW

Model		SDS-20KW
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	200 ~ 820Vdc
	Max. DC Voltage	850VDC
	Start Voltage	400Vdc
	Recommend PV Array Open Circuit Voltage	620Vdc
	Control System	MPPT
AC Output	Rated Output Power	20KW
	Rated Grid voltage	AC380V
	Grid voltage range	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	3 phase 4 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
	Structure	Protection Class
Cooling system		Natural cooling
Power Consumption at Night		0W
Noise		<60dB
Data Interfaces		External RS232C/RS485
Display		LCD
Dimensions(W*H*D)		550*1300*700mm
Weight		130kgs
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-25KW

Model		SDS- 25KW
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	200 ~ 820Vdc
	Max. DC Voltage	850VDC
	Start Voltage	400Vdc
	Recommend PV Array Open Circuit Voltage	620Vdc
	Control System	MPPT
AC Output	Rated Output Power	25KW
	Rated Grid voltage	AC380V
	Grid voltage range	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	3 phase 4 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP20
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<60dB
	Data Interfaces	External RS232C/RS485
	Display	LCD
	Dimensions(W*H*D)	550*1300*700mm
	Weight	180kgs
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-30KW

Model		SDS- 30KW
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	200 ~ 820Vdc
	Max. DC Voltage	850VDC
	Start Voltage	400Vdc
	Recommend PV Array Open Circuit Voltage	620Vdc
	Control System	MPPT
AC Output	Rated Output Power	30KW
	Rated Grid voltage	AC380V
	Grid voltage range	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz ( Grid frequency )
	Phases	3 phase 4 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP20
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<60dB
	Data Interfaces	External RS232C/RS485
	Display	LCD
	Dimensions(W*H*D)	650*1300*750mm
	Weight	190kgs
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-40KW

Model		SDS- 40KW
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	200 ~ 820Vdc
	Max. DC Voltage	850VDC
	Start Voltage	400Vdc
	Recommend PV Array Open Circuit Voltage	620Vdc
	Control System	MPPT
AC Output	Rated Output Power	40KW
	Rated Grid voltage	AC380V
	Grid voltage range	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	3 phase 4 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
	Structure	Protection Class
Cooling system		Natural cooling
Power Consumption at Night		0W
Noise		<60dB
Data Interfaces		External RS232C/RS485
Display		LCD
Dimensions(W*H*D)		650*1400*750mm
Weight		110kgs
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over/under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	5-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	

# SDS-50KW

Model		SDS- 50KW
Isolation type		Transformer-less
DC Input	MPPT Voltage Range	200 ~ 820Vdc
	Max. DC Voltage	850VDC
	Start Voltage	400Vdc
	Recommend PV Array Open Circuit Voltage	620Vdc
	Control System	MPPT
AC Output	Rated Output Power	50KW
	Rated Grid voltage	AC380V
	Grid voltage range	AC 342 ~ 418 V
	Normal Grid Frequency	50/60Hz (Grid frequency)
	Phases	3 phase 4 wire
	Power Factor	>0.95
	Current THD	At rated power and in the sine wave <3%
	Control System	PWM
	Anti-islanding	≤0.5 sec
	Output Overload	100%
	Max. Efficiency	98%
	Euro Efficiency	97%
Structure	Protection Class	IP20
	Cooling system	Natural cooling
	Power Consumption at Night	0W
	Noise	<60dB
	Data Interfaces	External RS232C/RS485
	Web Module( Option)	RS232C to TCP/IP
	Display	LCD
	Dimensions(W*H*D)	650*1400*750mm
	Weight	300kgs
Protection	Inverter	Input overvoltage, output short circuit, overheat, output DC component.
	Grid	Anti-islanding, over /under voltage of grid, over/under frequency of grid.
Environment	Environment	No corrosion gas, flammable gas, oil mist, dust etc.
	Operation temperature	-10℃~40℃ (55℃)
	Stored temperature	-20℃~65℃
	Relative humidity	0~100% (Do not wet with dew)
Warranty	3-years quality warranty	
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1,	
Certifications	CE, VDE0126-1, AS4777, AS3100, G83/1, G59. ISO9001:2000	



# SDS-100KW

Name of Type:		SDS-100KW
Isolation		Low frequency transformer isolation
DC Input	Max. DC power	110KWp
	Max. allowable input voltage	900Vdc
	DC input voltage range, MPPT	450Vdc-820Vdc
	Max. input current	600A
AC Output	Nominal AC output power	100KW
	Max. AC output power	110KWp
	THD of AC current	<3%(nominal power)
	Power factor	>0.99
	Max. efficiency	97.3%
	Euro efficiency	96.7%
	Nominal AC voltage	310~450Vac
	Nominal AC frequency	50/60Hz±1%
Internal power consumption an night		<100W
Automatically put into operation conditions		When the DC input and power grids meet to the requirements, the inverters automated operation
Automatic restart time		2min
Comm. interfaces		RS485 (Modbus protocol)
Operating Temp.		-25℃~+55℃
Relative humidity		0~90%, non-condensing
Altitude(m)		5000meters(More than 2000 meters down the amount to be used)
Cooling method		Controlled forced-air cool
Noise		≤60dB
Protection degree		IP20
Size (W*L*H mm)		1800*800*1960
Communications monitoring		Inverter via RS485 communication for start-stop control and routine data monitoring

# SDS-250KW

Name of Type:		SDS-250KW
Isolation		Low frequency transformer isolation
DC Input	Max. DC power	275KWp
	Max. allowable input voltage	900Vdc
	DC input voltage range, MPPT	450Vdc-820Vdc
	Max. input current	600A
AC Output	Nominal AC output power	250KW
	Max. AC output power	275KWp
	THD of AC current	<3%(nominal power)
	Power factor	>0.99
	Max. efficiency	97.3%
	Euro efficiency	96.7%
	Nominal AC voltage	310~450Vac
Nominal AC frequency	50/60Hz±1%	
Internal power consumption an night		<100W
Automatically put into operation conditions		When the DC input and power grids meet to the requirements, the inverters automated operation
Automatic restart time		2min
Comm. interfaces		RS485(Modbus protocol)
Operating Temp.		-25℃~+55℃
Relative humidity		0~90%, non-condensing
Altitude(m)		5000meters(More than 2000 meters down the amount to be used)
Cooling method		Controlled forced-air cool
Noise		≤60dB
Protection degree		IP20
Size (W*L*H mm)		2000*800*2060
Communications monitoring		Inverter via RS485 communication for start-stop control and routine data monitoring



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