



Sandi Electric Co., Ltd.



G83/59



PV Grid-Connected Inverter



G83/1

Company Profile

Yueqing Sandi Electric Co., Ltd specialized in the new energy source and electrical source scientific research, development, manufacture and service had surpasses for 15 years of electrical source field; which recognized by widely customers according to entirely varieties, high quality and service first. At present, the researched products by our company basically contain the best product at home and abroad, which delegated the top level of electrical source manufacture all over the world. The main products are: PV Grid-Connected Inverter, Off-grid Pure sine wave inverter, PV Solar Pumping Inverter, PV Combiner box, Solar charge controller and Wind-Solar Hybrid Controller and other renewable energy products. The products of company are widely applied in new energy source, civilian use, mountain area, construction, industrial equipment, communication system, islands and other areas without electricity use.

SANDI Electric Company insist on technology as forerunner, keep long-term, good research cooperation with all universities; fetch in and absorb international advanced technology, built 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.



Qualification certificate



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.

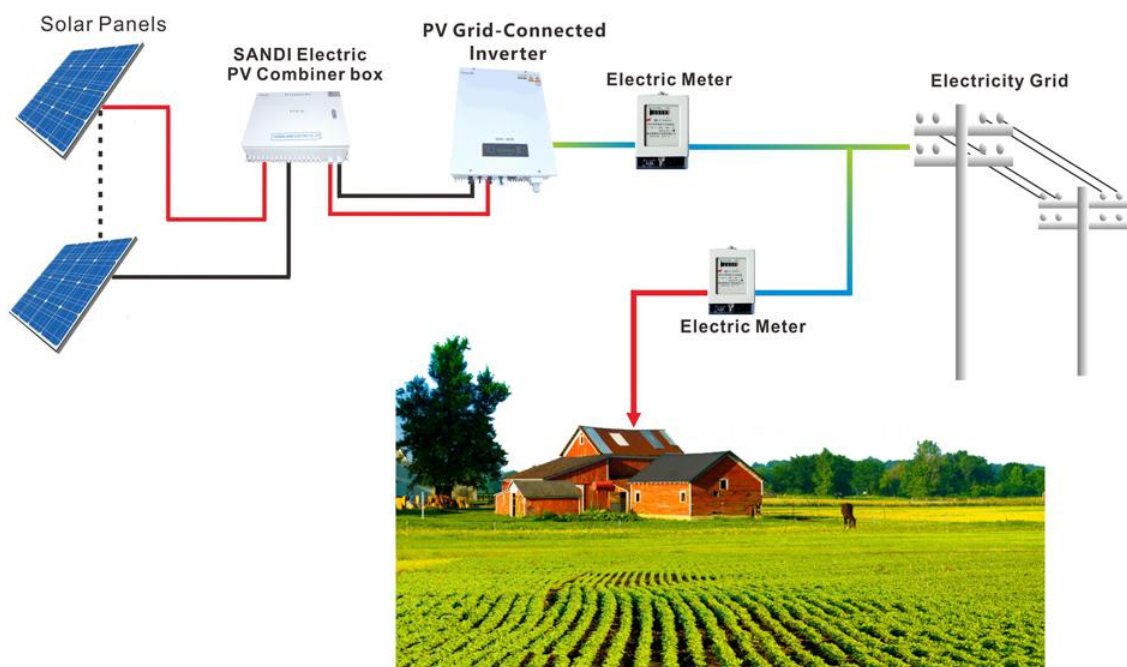
PV Grid-Connected Inverter Features:

- Using IGBT module with stable performance and powerful protection function
- Advanced MPPT(Maximum power point tracking) technology, MPPT efficiency 99%
- Double ways of MPPT input, higher conversion efficiency up to 98%
- Wide DC input voltage range
- High reliability due to complete protection and warning function
- Big Color LCD touch screen display,easy to operation and set up parameters conveniently
- Have passed CE, AS4777, AS3100, G83, G59 certifications, in accordance with international standards
- Quick and easy installation
- Designed to suitable for critical grid environment
- RS232/485 communication,multi communication interface can be selected

PV Grid-Connected Power System

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.

SANDI PV Grid-connected Power System



SDS-1000W/1500W Single Phase

Model		SDS-1000W	SDS-1500W
Isolation Type		Transformer-less	
DC Input	MPPT Voltage Range	DC100~500V	
	Max. DC Voltage	550VDC	
	Rated DC Voltage	360V	
	Start Voltage	180V	
	Recommended PV Array Open Circuit Voltage	200-400V	
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	1000W	1500W
	Rate Grid Voltage	AC220V(Grid Voltage)	
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	420*360*165mm	
Protection	Weight	16kgs	
	Inverter	Input over voltage, 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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE, AS4777, AS3100, G83/1, G59. ISO9001:2000		

SDS-2000W/2500W Single Phase

Model		SDS-2000W	SDS-2500W
Isolation Type		Transformer-less	
DC Input	MPPT Voltage Range	DC100~500V	
	Max. DC Voltage	550VDC	
	Rated DC Voltage	360V	
	Start Voltage	180V	
	Recommended PV Array Open Circuit Voltage	200-400V	
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	2000W	2500W
	Rate Grid Voltage	AC220V(Grid Voltage)	
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	420*360*165mm	
Protection	Weight	18kgs	
	Inverter	Input over voltage, 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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE, AS4777, AS3100, G83/1, G59. ISO9001:2000		

SDS-3000W/4000W Single Phase

Model		SDS-3000W	SDS-4000W
Isolation Type		Transformer-less	
DC Input	MPPT Voltage Range	DC100~500V	
	Max. DC Voltage	550VDC	
	Rated DC Voltage	360V	
	Start Voltage	180V	
	Recommended PV Array Open Circuit Voltage	200-400V	
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	3000W	4000W
	Rate Grid Voltage	AC220V(Grid Voltage)	
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	420*360*165mm	500*420*165mm
Protection	Inverter	Input over voltage, 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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE, AS4777, AS3100, G83/1, G59. ISO9001:2000		

SDS-5000W Single/Three Phase

Model		SDS-5000W	
DC Input	MPPT Voltage Range	DC100~500V	DC200~820V
	Max. DC Voltage	550VDC	850VDC
	Rated DC Voltage	360V	620V
	Start Voltage	180V	400V
	Recommended PV Array Open Circuit Voltage	200-400V	620V
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	5000W	
	Rate Grid Voltage	AC220V(Grid Voltage)	AC380V(Grid Voltage)
	Grid Voltage range	AC 185~264V (1 phase)	AC 342~418V (3 phase)
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	500*420*165mm	713*600*255MM
Protection	Weight	24kgs	31kgs
	Inverter	Input over voltage, 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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE, AS4777, AS3100, G83/1, G59. ISO9001:2000		

SDS-6000W Single/Three Phase

Model		SDS-6000W	
DC Input	MPPT Voltage Range	DC100~500V	DC200~820V
	Max. DC Voltage	550VDC	850VDC
	Rated DC Voltage	360V	620V
	Start Voltage	180V	400V
	Recommended PV Array Open Circuit Voltage	200-400V	620V
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	6000W	
	Rate Grid Voltage	AC220V(Grid Voltage)	AC380V(Grid Voltage)
	Grid Voltage range	AC 185~264V (1 phase)	AC 342~418V (3 phase)
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
	Structure	Protection Class	IP65
Cooling system		Natural cooling	
Noise		< 50dB	
Data Interfaces		External RS232/RS485	
Web Module(Optional)		RS232C to TCP/IP	
Display		LCD	
Dimensions(W*H*D)		590*540*227mm	713*600*255MM
Weight		26kgs	35kgs
Protection	Inverter	Input over voltage, 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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE, AS4777, AS3100, G83/1, G59. ISO9001:2000		

SDS-7000W Single/Three Phase

Model		SDS-7000W	
DC Input	MPPT Voltage Range	DC100~500V	DC200~820V
	Max. DC Voltage	550VDC	850VDC
	Rated DC Voltage	360V	620V
	Start Voltage	180V	400V
	Recommended PV Array Open Circuit Voltage	200-400V	620V
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	7000W	
	Rate Grid Voltage	AC220V(Grid Voltage)	AC380V(Grid Voltage)
	Grid Voltage range	AC 185~264V (1 phase)	AC 342~418V (3 phase)
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	590*540*227mm	713*600*255MM
	Weight	28kgs	38kgs
Protection	Inverter	Input over voltage, 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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE, AS4777, AS3100, G83/1, G59. ISO9001:2000		

SDS-8000W Single/Three Phase

Model		SDS-8000W	
DC Input	MPPT Voltage Range	DC100~500V	DC200~820V
	Max. DC Voltage	550VDC	850VDC
	Rated DC Voltage	360V	620V
	Start Voltage	180V	400V
	Recommended PV Array Open Circuit Voltage	200-400V	620V
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	8000W	
	Rate Grid Voltage	AC220V(Grid Voltage)	AC380V(Grid Voltage)
	Grid Voltage range	AC 185~264V (1 phase)	AC 342~418V (3 phase)
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	590*540*227mm	713*600*255MM
	Weight	30kgs	34kgs
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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE, AS4777, AS3100, G83/1, G59. ISO9001:2000		

SDS-9000W Single/Three Phase

Model		SDS-9000W	
DC Input	MPPT Voltage Range	DC100~500V	DC200~820V
	Max. DC Voltage	550VDC	850VDC
	Rated DC Voltage	360V	620V
	Start Voltage	180V	400V
	Recommended PV Array Open Circuit Voltage	200-400V	620V
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	9000W	
	Rate Grid Voltage	AC220V(Grid Voltage)	AC380V(Grid Voltage)
	Grid Voltage range	AC 185~264V (1 phase)	AC 342~418V (3 phase)
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	590*540*227mm	713*600*255MM
	Weight	32kgs	38kgs
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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE, AS4777, AS3100, G83/1, G59. ISO9001:2000		

SDS-10KW Single/Three Phase

Model		SDS-10KW	
DC Input	MPPT Voltage Range	DC100~500V	DC200~820V
	Max. DC Voltage	550VDC	850VDC
	Rated DC Voltage	360V	620V
	Start Voltage	180V	400V
	Recommended PV Array Open Circuit Voltage	200-400V	620V
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	10KW	
	Rate Grid Voltage	AC220V(Grid Voltage)	AC380V(Grid Voltage)
	Grid Voltage range	AC 185~264V (1 phase)	AC 342~418V (3 phase)
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	590*540*227mm	713*600*255MM
	Weight	35kgs	38kgs
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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE, AS3100, G83/1, G59. ISO9001:2000		

SDS-12KW/15KW Three Phase

Model		SDS-12KW	SDS-15KW
DC Input	MPPT Voltage Range	DC200~820V	
	Max. DC Voltage	850VDC	
	Rated DC Voltage	620V	
	Start Voltage	400V	
	Recommended PV Array Open Circuit Voltage	620V	
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	12KW	15KW
	Rate Grid Voltage	AC380V(Grid Voltage)	
	Grid Voltage range	AC 342~418V (3 phase)	
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232C/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	713*600*255MM	713*600*255MM
Protection	Weight	55kgs	60kgs
	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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE. ISO9001:2000		

SDS-18KW/20KW Three Phase

Model		SDS-18KW	SDS-20KW
DC Input	MPPT Voltage Range	DC200~820V	
	Max. DC Voltage	850VDC	
	Rated DC Voltage	620V	
	Start Voltage	400V	
	Recommended PV Array Open Circuit Voltage	620V	
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	18KW	20KW
	Rate Grid Voltage	AC380V(Grid Voltage)	
	Grid Voltage range	AC 342~418V (3 phase)	
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232C/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	450*640*700MM	450*640*700MM
Protection	Weight	75kgs	80kgs
	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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE. ISO9001:2000		

SDS-25KW/30KW Three Phase

Model		SDS-25KW	SDS-30KW
DC Input	MPPT Voltage Range	DC200~820V	
	Max. DC Voltage	850VDC	
	Rated DC Voltage	620V	
	Start Voltage	400V	
	Recommended PV Array Open Circuit Voltage	620V	
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	25KW	30KW
	Rate Grid Voltage	AC380V(Grid Voltage)	
	Grid Voltage range	AC 342~418V (3 phase)	
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232C/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	450*640*700MM	450*640*700MM
Protection	Weight	97kgs	110kgs
	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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE. ISO9001:2000		

SDS-40KW/50KW Three Phase

Model		SDS-40KW	SDS-50KW
DC Input	MPPT Voltage Range	DC200~820V	
	Max. DC Voltage	850VDC	
	Rated DC Voltage	620V	
	Start Voltage	400V	
	Recommended PV Array Open Circuit Voltage	620V	
	Control System	MPPT	
	Number of MPPT Tracker	1/2	
AC Output	Rated Output Power	40KW	50KW
	Rate Grid Voltage	AC380V(Grid Voltage)	
	Grid Voltage range	AC 342~418V (3 phase)	
	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 <5%	
	Control System	PWM	
	Anti-islanding	≤0.5 sec	
	Output Overload	100%	
	Max. Efficiency	98%	
	Euro Efficiency	96.4%	
Structure	Protection Class	IP65	
	Cooling system	Natural cooling	
	Noise	< 50dB	
	Data Interfaces	External RS232C/RS485	
	Web Module(Optional)	RS232C to TCP/IP	
	Display	LCD	
	Dimensions(W*H*D)	600*700*1150mm	600*700*1150mm
Protection	Weight	140kgs	160kgs
	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°C~40°C(50°C)	
	Stored temperature	-20°C~65°C	
	Relative humidity	0~100% (Do not wet with dew)	
Warranty	3 years		
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1		
Certifications	CE. ISO9001:2000		

SDS-50KW-500KW Three Phase With Transformer Type

Model	SDS-50KW	SDS-100KW	SDS-150KW	SDS-200KW	SDS-250KW	SDS-500KW
Isolation	Low frequency transformer isolation					
Maximum DC input power	55kwp	110kwp	165kwp	220kwp	275kwp	550kwp
Maximum DC input voltage	850vdc					
Maximum power point tracking(MPPT)range@ optimum operating point voltage	450vdc~800vdc@595vdc					
Recommended number of PV module voltage@string	35v around @ 17 string					
Connection panels	Wiring Terminals					
Maximum input current	122A	245A	367A	489A	611A	1200A
Rated AC output power	50kw	100kw	150kw	200kw	250kw	500KW
Maximum AC output power	55kwp	110kwp	165kwp	220kwp	275kwp	550KW
Current harmonics THD	below 3%(Rated power)					
Power Factor	above 0.99					
Maximum efficiency	96%	96.5%				
European efficiency	94%	95.2%				
Allowed Grid Voltage Range	310vac~450vac(rated 380VAC)					
Allowed Grid Frequency Range	47.5hz~51.5hz / 57.5hz~61.5hz					
Power Consumption at Night	below 100w					
Automatically put into operation conditions	DC input and power to meet the requirements, the inverter automatically run					
Automatic restart after power failure time	5min(Time is adjustable)					
Protection	Reverse polarity protection, short circuit protection, island effect, thermal protection, overload protection, etc.					
Communication Interface	RS485					
Operating Temperature	-25° C~+55° C					
Relative Humidity	0~95%,Non-condensing					
Altitude	≤ 2000 m (over 2000 m with derating required)					
Cooling method	Forced air cooling					
Noise	≤60db					
Protection class	IP20(Indoor)					
W × D × H(mm)	800*600*2060	1000*800*2060	1200*900*2060	1200*900*2060	1200*900*2060	2000*800*2060
Weight(kg)	700	800	950	1050	1100	1800
Warranty	3 years					
CE-Standards Complied	CE-Standards Complied: EN61000-6-2, EN61000-6-4(EMC), EN61558-1, EN61558-2-17, EN50178, EN61000-1					
Certifications	CE, VDE ARN 4105, ISO9001:2000					

***The above model as the normal voltage single phase 220/230/240VAC, three phase 380/400/415VAC, any special requirements, could contact us. The output power, output voltage, phase can be customized**



YUEQING SANDI ELECTRIC CO.,LTD

***Add: Lvao Industrial Zone Liushi Town, Yueqing City,
Zhejiang Province 325604, China.***

Tel:+86-577-62776918

Mobile:+86-13175696608

Fax:+86-577-61209955

Skype: carrie.rong

E-mail: carrie@sandi.cc

Whatsapp/wechat: +86-13175696608

Web: <http://www.lgis.cc>