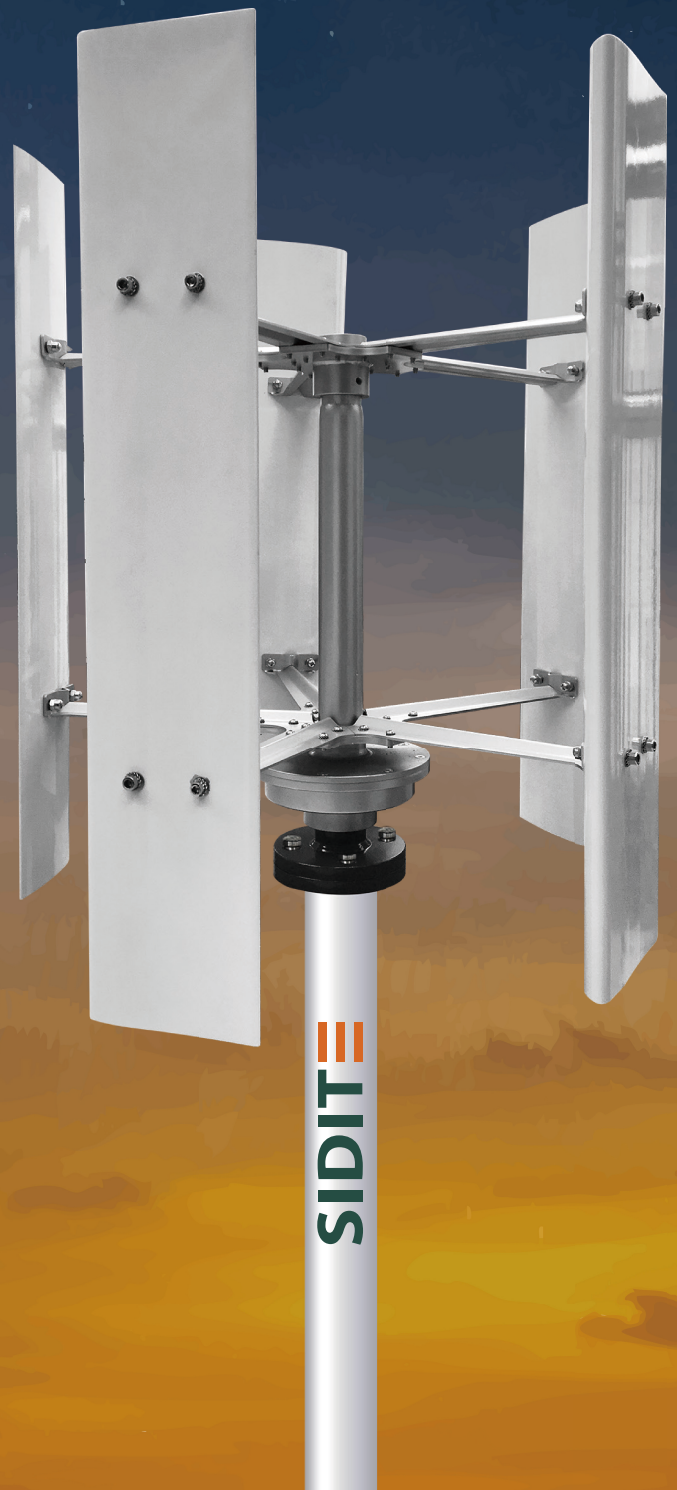


**MAKE
YOUR
LIFE
GREEN**

SIDIT 



Founded in

2000

25

years'
experience

50

% products
be exported to
overseas market

Sidite was established in 2000 and is headquartered in Jiaxing, Zhejiang, China, with a total investment of 100 million RMB and a facility spanning 20,000 square meters.

In 2023, Sidite Energy established an Air Energy Heat Pump Performance Laboratory (R&D), comprising four specialized divisions: a full-unit testing laboratory, a full-unit reliability testing laboratory, a component testing laboratory, and a controller testing laboratory. Spanning a total area of 1,000 square meters with cumulative investments exceeding 10 million RMB, the facility is staffed by over 30 professionals, 40% of whom possess more than five years of industry experience.

We specialize in the research, development, and manufacturing of solar water heaters, heat pumps, and wind turbine power systems, supported by a professional team and a modern quality management system.

Our products are certified to CE, CCC, ISO 9001, ISO 14001, and Solar Keymark standards, and are exported to numerous overseas markets, including Hungary, Finland, Ukraine, Romania, Switzerland, France, the Czech Republic, Australia, Argentina, Brazil, Sri Lanka, Malaysia, Uzbekistan, Kenya, Tanzania, Rwanda, Jordan, the United Arab Emirates, Lebanon, Syria, Yemen, and more.

We accept OEM and ODM orders, delivering customized solutions tailored to client needs.

We look forward to collaborating with you to provide high-quality products and services that exceed expectations!



Sidite Wind Power Small Size Long-term Energy

SIDITE

- high utilization rate of wind energy
- Small size and light weight
- Stronger typhoon resistance and reliable operation
- convenient for various installation

What is the wind power?

Wind is used to produce electricity by converting the kinetic energy of air in motion into electricity. In modern wind turbines, wind rotates the rotor blades, which convert kinetic energy into rotational energy. This rotational energy is transferred by a shaft which to the generator, thereby producing electrical energy.





S 1kw-50kw

- 1.Low starting wind speed, high utilization rate of wind energy, small size, light weight, beautiful appearance, low running vibration.
- 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
- 3 The wind rotor blades are precision injection-molded by new technology, with Optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
- 4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
- 5 . The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
- 6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

Type	SDT-10S	SDT-20S	SDT-30S	SDT-50S
Rated Power	10kw	20kw	30KW	50KW
Max Power	11kw	25kw	35KW	60KW
Rated Voltage	48v/96v/220v	220v/380v	380V	380V/400V
Start-upWind	3.0m/s	3.0m/s	3.0m/s	3.0m/s
Rated Wind	12m/s	12m/s	12m/s	12m/s
Survival Wind	55m/s	55m/s	55m/s	55m/s
Blade Length	3.1m	4.5m	6m	7.8m

Blades	Generator type	Sheel material	Protection system	Working tep	Lubrication
3/5/6 pcs glass fiber	NdFeB three-phase AC permanent magnet generator	glass fiber	Electromagnetic/ wind wheel sideways	-40°C ~ 80°C	Add grease



H 1kw-50kw

- 1. Low starting wind speed and high utilization rate of wind energy; Small size, light weight, beautiful appearance, and low operating vibration.
- 2. The rotating body can be selected as a hoop or flange, which is convenient for various installation requirements.
- 3. The wind turbine blades adopt a new process of precision injection molding, combined with Optimized aerodynamic shape design and structural design.Three or five blades are freely selected,with high-wind energy utilization coefficient and increased annual power generation.
- 4. The casing is integrally formed with die casting aluminum alloy, combined with customized bearing rotations, with stronger typhoon resistance and safe and reliable operation.
- 5. The generator adopts a patented permanent magnet rotor AC generator with a special stator design, effectively reducing the resistance torque of the generator and thus reducing the starting wind speed; At the same time, the wind turbine and generator have better matching characteristics, ensuring the reliability of unit operation.
- 6. The intelligent tracking technology of wind power generation efficiency is adopted to effectively regulate the current and voltage, and the power generation conversion rate is high.

Type	SDT-5H	SDT-10H	SDT-30H
Rated Power	5kw	10kw	30kw
Max Power	5.5kw	11kw	33kw
Rated Voltage	96v/220v/380v	96v/220v/380v	380v
Start-upWind	2m/s	2m/s	2m/s
Rated Wind	12m/s	12m/s	12m/s
Survival Wind	53m/s	53m/s	53m/s
Wheel diameter	4m	6m	10m

Blades	Generator type	Sheel material	Protection system	Working tep	Lubrication
3/5/6 pcs glass fiber	NdFeB three-phase AC permanent magnet generator	glass fiber	Electromagnetic/ wind wheel sideways	-40°C ~ 80°C	Add grease



V 100W-400W

- 1.Low starting wind speed, high utilization rate of wind energy, small size, light weight, beautiful appearance, low running vibration.
- 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
- 3.The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
- 4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
- 5 . The generator adopts the patented permanent magnet rotor alternator, with a special stator design. which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed:at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
- 6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

Type	SDT-100SV1	SDT-200SV1	SDT-200SV2	SDT-300SV2
Rated Power	10OW	200w	200W	300W
Rated Voltage	12/24V	12/24V	12/24V	12/24V
Start-up Wind	1.8m/s	1.8m/s	2m/s	2m/s
Survival Wind	40m/s	40m/s	40m/s	40m/s
Wheel diameter	0.48m	0.48m	0.65m	0.65m
Wheel height	0.88m	1. 1m	1. 1m	1. 3m
Blades	10	12	10	12
Generator	NdFeB three-phase AC permanent magnet generator			
Protection	Electromagnetic			
Working tep	-40°C ~ 80'C			



Q 100W-400W

- 1. Low starting wind speed and high utilization rate of wind energy; Small size, light weight, beautiful appearance, and low operating vibration.
- 2. The rotating body can be selected as a hoop or flange, which is convenient for various installation requirements.
- 3. The wind turbine blades adopt a new process of precision injection molding, combined with optimized aerodynamic shape design and structural design. Three or five blades are freely selected, with high wind energy utilization coefficient and increased annual power generation.
- 4. The casing is integrally formed with die-casting aluminum alloy, combined with customized bearing rotations, with stronger typhoon resistance and safe and reliable operation.
- 5. The generator adopts a patented permanent magnet rotor AC generator with a special stator design, effectively reducing the resistance torque of the generator and thus reducing the starting wind speed; At the same time, the wind turbine and generator have better matching characteristics, ensuring the reliability of unit operation.
- 6. The intelligent tracking technology of wind power generation efficiency is adopted to effectively regulate the current and voltage, and the power generation conversion rate is high.

Type	SDT-100Q1	SDT-200Q1	SDT-300Q4	SDT-400Q4
Rated Power	10OW	200W	300W	400W
Rated Voltage	12/24V	12/24V	12/24V	12/24V
Start-up Wind	2m/s	2m/s	2.5m/s	2.5m/s
Survival Wind	45m/s	45m/s	45m/s	45m/s
Wheel diameter	0.98m	0.98m	1.2m	1. 2m
Wheel height	0.87m	0.87m	0.96m	0.96m
Blades	9	9	7	7
Generator	NdFeB three-phase AC permanent magnet generator			
Protection	Electromagnetic			
Working tep	-40°C ~ 80'C			

Technical parameters of off grid wind solar (diesel) hybrid controller 3KW



Type	3KW-24Vdc	3KW-48Vdc	3KW-96Vdc	3KW-120Vdc	3KW-220Vdc
Wind turbine rated power	3KW	3KW	3KW	3KW	3KW
Wind turbine max. power	6KW	6KW	6KW	6KW	6KW
*Solar panel power	900Wp	900Wp	900Wp	900Wp	900Wp
Battery	24Vdc	48Vdc	96Vdc	120Vdc	220Vdc
Function	Rectifier,charge, control, *DC output				
Automatic protection function	Over voltage protection, constant voltage charge, arrester				
Manual function	Manual brake				
Display mode	LCD+LED				
Display content	Wind turbine voltage, current, power; solar panel voltage, current, power; battery voltage, charge current				
PWM constant pressure voltage	>29Vdc	>58Vdc	>116Vdc	>145Vdc	>260Vdc
Wind turbine 3-phase dump load voltage	30±1Vdc	60±1Vdc	120±2Vdc	150±2Vdc	270±2Vdc
Wind turbine recharge voltage	27±1Vdc	54±1Vdc	108±2Vdc	138±2Vdc	245±2Vdc
*Solar control stop charging voltage	30±1Vdc	60±1Vdc	120±2Vdc	150±2Vdc	265±2Vdc
*Solar control recharge voltage	<29Vdc	<58Vdc	<116Vdc	<140Vdc	<250Vdc
*Diesel generator starting voltage	20±1Vdc	40±1Vdc	80±2Vdc	100±2Vdc	180±2Vdc
*Diesel generator off voltage	27±1Vdc	54±1Vdc	108±2Vdc	135±2Vdc	245±2Vdc
Self-provided battery connecting wire	>30mm²	>12mm²	>6mm²	>4mm²	>2.5mm²
PWM fuse	160A	80A	40A	32A	16A
*Solar fuse	50A	25A	12A	10A	6A
Charging fuse	190A	125A	63A	50A	25A
Work environment temperature	-30~60° C				
Relative humidity	< 90% No condensation				
Noise (1m)	< 40dB				
Degree of protection	IP20 (Indoor) IP65 (Outdoors)				
Cooling method	Forced air cooling				
*Extral Control function (optional)	Yawing, variable pitch, mechanical brake, hydraulic brake, electromagnetism brake				
*Communication interface (optional)	RS485/USB/GPRS/WIFI/Ethernet				
*Temperature compensation (optional)	-4mv/° C/2V,-35° C~+80° C,Accuracy:±1° C				
Controller Size (mm) Weight (kg)	580*400*240 23Kg	510*360*240 18Kg	510*360*240 17Kg	510*360*240 17Kg	510*360*240 17Kg
Dump load Size (mm) Weight (kg)	400*410*250 13Kg	400*410*250 13Kg	400*410*250 13Kg	400*410*250 13Kg	400*410*250 13Kg

Technical parameters of off grid wind solar (diesel) hybrid controller 5KW



Type	5KW-48Vdc	5KW-120Vdc	5KW-240Vdc
Wind turbine rated power	5KW	5KW	5KW
Wind turbine max. power	10KW	10KW	10KW
*Solar panel power	1.5KWp	1.5KWp	1.5KWp
Battery	48Vdc	120Vdc	240Vdc
Function	Rectifier,charge, control, *DC output		
Automatic protection function	Over voltage protection, constant voltage charge, arrester		
Manual function	Manual brake		
Display mode	LCD+LED		
Display content	Wind turbine voltage, current, power; solar panel voltage, current, power; battery voltage, charge current		
PWM constant pressure voltage	>58Vdc	>145Vdc	>290 Vdc
Wind turbine 3-phase dump load voltage	60±1Vdc	150±2Vdc	300±5Vdc
Wind turbine recharge voltage	54±1Vdc	135±2Vdc	280±5Vdc
*Solar control stop charging voltage	60±1Vdc	150±2Vdc	300±5Vdc
*Solar control recharge voltage	54±1Vdc	135±2Vdc	280±5Vdc
*Diesel generator starting voltage	40±1Vdc	100±2Vdc	200±5Vdc
*Diesel generator off voltage	54±1Vdc	135±2Vdc	270±5Vdc
Self-provided battery connecting wire	>20mm²	>10mm²	>6mm²
PWM fuse	125A	50A	32A
*Solar fuse	40A	16A	10A
Charging fuse	160A	63A	40A
Work environment temperature	-30~60° C		
Relative humidity	< 90% No condensation		
Noise (1m)	< 40dB		
Degree of protection	IP20 (Indoor) IP65 (Outdoors)		
Cooling method	Forced air cooling		
*Extral Control function (optional)	Yawing, variable pitch, mechanical brake, hydraulic brake, electromagnetism brake		
*Communication interface (optional)	RS485/USB/GPRS/WIFI/Ethernet		
*Temperature compensation (optional)	-4mv/° C/2V,-35° C~+80° C,Accuracy:±1° C		
Controller Size (mm) Weight (kg)	580*400*240 23Kg	510*360*240 17Kg	510*360*240 17Kg
Dump load Size (mm) Weight (kg)	600*450*380 28Kg	600*450*380 28Kg	600*450*380 28Kg

On grid wind turbine single phase inverter 3-5KW



On grid wind turbine inverter	SDTG3KTL	SDTG5KTL	SDTG3KTL	SDTG5KTL
Rated output power (AC)	3KW	5KW	3KW	5KW
Max. Output power (AC)	3.3KW	5.5KW	3.3KW	5.5KW
Input voltage rang (DC)	0-450V	0-450V	0-800V	0-800V
MPPT Voltage range (DC)	100V-400V	100V-400V	150V-700V	150V-700V
Max. Input current (DC)	11.2A	18.7A	6.8A	11.2A
Rated current	10.2A	17A	6.2A	10.2A
THD Current harmonic	<3% (At rated power)			
Power factor	> 0.99			
Max. efficiency	98%			
Allowable grid voltage range (AC)	110V/120V/220V (Single-phase)±20%			
Allowable grid frequency range	50Hz/60Hz±10%			
Automatic operation conditions	DC input and power grid meet the requirements, the inverter operates automatically			
Restart time after power failure	2min (Adjustable)			
Function	wind turbine curve setting			
Automatic protection	Inverter part: Polarity reverse connection protection, short circuit protection, island effect protection, LVRT, overheat protection, overload protection, ground fault protection, etc			
Display	Touch screen			
Monitoring content	DC Input voltage, current, power; inverter output voltage,current ,power; Cumulative power generation; Grid voltage ,Current .			
Protection level	IP20 (Indoor) IP65 (Outdoors)			
Telematics	RS485/USB/GPRS/WIFI/Ethernet (Optional)			
Environment	Operating amb. Temp. & Hum -10~60° C, < 90% no condensation			
Noise (1m)	< 40dB			
Refrigeration mode	Forced air cooling			
Size / weight	450*275*770mm 39kg	450*275*770mm 44kg	550*225*770mm 49kg	550*225*770mm 59kg

On Grid Wind Turbine (wind solar hybrid) Controller 5KW-10KW



Type	SDT-GT5KW	SDT-GT5KW	SDT-GT10KW
Wind turbine rated power	5KW	5KW	10KW
Wind turbine Max. power	10KW	10KW	20KW
Wind turbine rated voltage	AC220V	AC380-400V	AC380-400V
*Solar panels power(optional)	1.5KW	1.5KW	3KW
Function	Rectifier,control, DC output		
Automatic protection function	Over voltage protection, network electric cut off protection, regulated supply output, arrester		
Manual function	Manual brake, reset, emergency switch		
Display mode	LCD		
Display content	Wind turbine voltage, current, power; Solar voltage, current, power; DC output voltage, DC output current, DC output power, total power.		
PWM constant voltage	≥ 320dc	≥ 520dc	≥ 520dc
Wind turbine 3-phase dump load voltage	350±5Vdc	540±5Vdc	540±5Vdc
Wind turbine 3-phase dump load time-lapse	12-20 min	12-20 min	12-20 min
Solar panels fuse	5A	5A	8A
PWM dump load fuse	25A	16A	32A
Fuse of DC output	32A	20A	40A
Work environment temperature	-30~60° C		
Relative humidity	< 90% No condensation		
Noise (1m)	< 40dB		
Degree of protection	IP20(Indoor) IP65 (Outdoors)		
Cooling method	Forced air cooling		
*Communication interface (optional)	RS485/USB/GPRS/WIFI/Ethernet		
*Temperature compensation(optional)	-4mv/° C/2V,-35° C--+80° C,Accuracy:±1° C		
Size of the controller (mm)	510*360*240	510*360*240	580*400*240
Weight of the controller	18Kg	18Kg	23Kg
Size of the dump load (mm)	600*450*380	600*450*380	690*450*530
Weight of the dump load	28Kg	28Kg	35Kg

7.5KVA off grid single phase inverter technical parameters

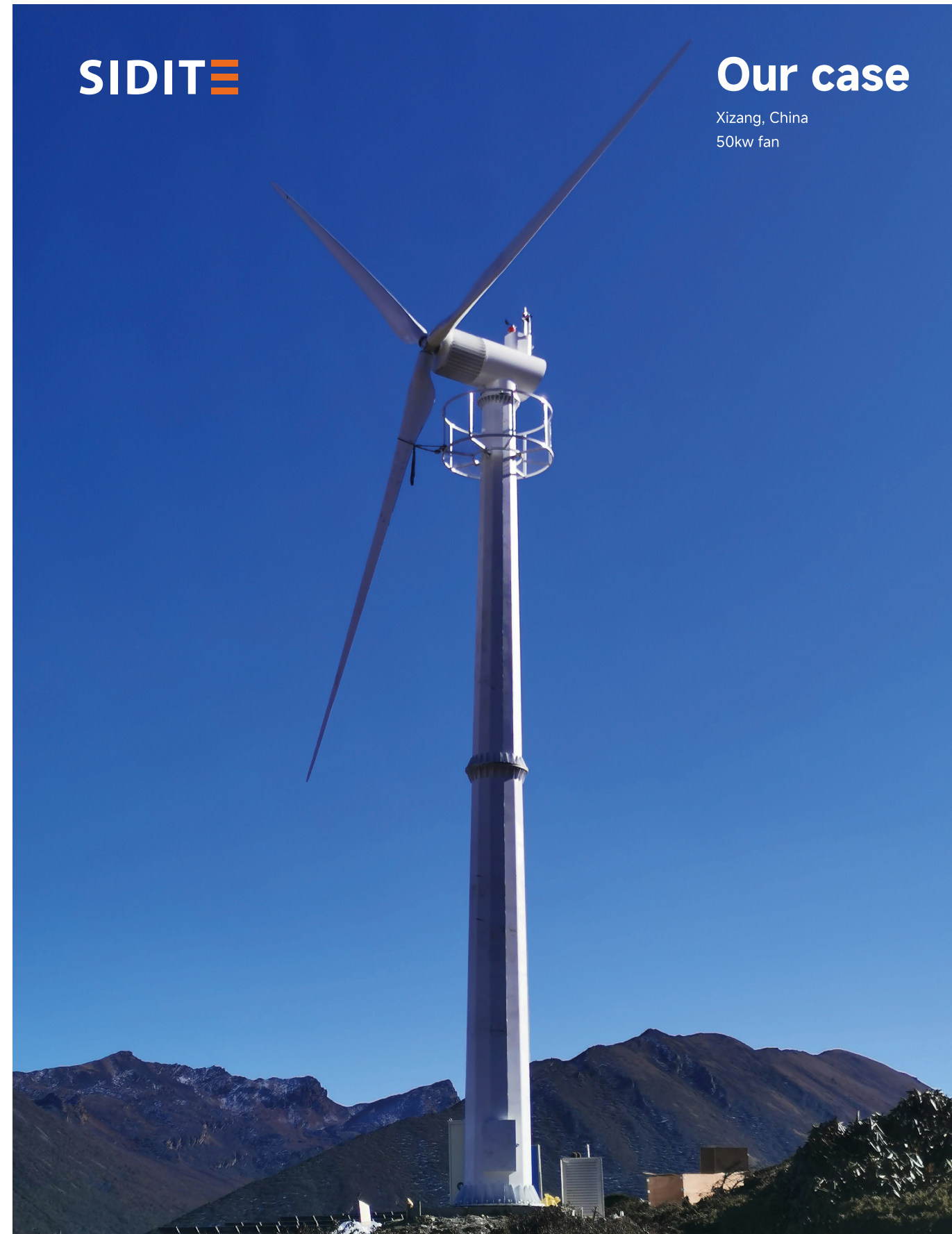


Type		SDT48-7.5KDZ	SDT96-7.5KDZ	SDT120-7.5KDZ	NB240-7.5KDZ
DC input	Input rated voltage	48 VDC	96 VDC	120 VDC	240VDC
	Input rated current	174 A	87 A	69 A	35 A
AC input	Input Dc voltage range	40-62 VDC	80-124 VDC	100-155 VDC	200-310 VDC
	Allow input voltage range	110 VAC/120 VAC/220 VAC/240 VAC± 15%			
	Input rated current	68A/62.5A/34A /31A			
	Bypass transfer time	≤ 40 ms(Can be customized ≤ 4ms version)			
AC output	Rated capacity	7.5KVA			
	Output rated power	6KW			
	Output rated voltage and frequency	110 VAC/ 120 VAC/ 220 VAC/ 240 VAC,50Hz/ 60Hz			
	Output rated current	68A/62.5A/34A/31A			
	Output voltage accuracy	110 VAC/120 VAC/220 VAC/ 240 VAC+ 1%			
	Output frequency accuracy	50Hz/60Hz + 0.05%			
	Waveform distortion (THD)(Linear load)	≤ 3%			
	Dynamic response time(Load 0~ → 100%)	2ms			
	Power factor (PF)	0.8			
	Overload capacity	110%,3 minutes,150%,5 seconds			
	Crest factor (CF)	3:1			
	Inverter efficiency	90%			
	Working Environment	Dielectric strength	1500VAC,1minute		
Noise (lm)		≤ 50dB			
Ambient temperature		-10℃ ~+50℃			
Humidity		0~90%, No condensation			
Altitude		<2000m (Higher than 2000m rated power should be reduced)			
Production function	Input reverse protection, input under-voltage protection, output overload protection , output short circuit protection, thermal protection				
Equipped with isolated transformer			Yes		
Pure Sine Wave			Yes		
AC Charger			Available, optional		
Solar Battery Charger			Available, optional		
Dry Contact			Available, optional		
Size	Net Size: 400*660*780mm Packing Size:520*780*950				
Weight	Net Weight :95KGS Gross Weight :110KGS				

10KVA off grid single phase inverter technical parameters



Type		SDT48-10KSZ	SDT96-10KSZ	SDT120-10KSZ	SDT240-10KSZ
DC input	Input rated voltage	48 VDC	96 VDC	120 VDC	240 VDC
	Input rated current	231 A	116 A	93 A	46 A
	Input Dc voltage range	40-62VDC	80-124 VDC	100-155 VDC	200-310 VDC
AC input	Allow input voltage range	220 VAC/ 380 VAC/ 400 VAC± 15% VAC			
	Input rated current	28A/15A/14.5A			
	Bypass transfer time	≤ 40 ms (Can be customized ≤ 4ms version)			
AC output	Rated capacity	10KVA			
	Output rated power	8KW			
	Output rated voltage and frequency	220 VAC/ 380 VAC/400 VAC,50Hz/ 60Hz			
	Output rated current	28A/15A/14.5A			
	Output voltage accuracy	220 VAC/ 380 VAC/ 400 VAC± 1%			
	Output frequency accuracy	50Hz/60Hz + 0.05%			
	Wave Form	Pure sine wave(Isolation transformer)			
	THD.	≤ 3% (Linear load)			
	Power factor (PF)	0.8			
	Overload capacity	110%,3 minutes,150%5 seconds			
	Crest factor (CF)	3:1			
	Inverter efficiency	>92%			
	Working Environment	Dielectric strength	1500VAC,1 minute		
Noise (lm)		≤ 50dB			
Ambient temperature		-10℃ ~+50℃			
Humidity		0~90%, No condensation			
Altitude		<2000m ,Higher than 2000m rated power should be reduced			
Production function	Input reverse protection, input under-voltage protection, output overload protection , output short circuit protection, thermal protection				
Equipped with isolated transformer			Yes		
Pure Sine Wave			Yes		
AC Charger			Available, optional		
Solar Battery Charger			Available, optional		
Dry Contact			Available, optional		
Size	450x830x1100 mm				
Weight	180Kg				







Jiaxing Sidite Import and Export Co.,Ltd

ADD: Yuxin Industrial Park,Jiaxing City,Zhejiang Province,China

TEL: +86-573-83224422 +86-573-83225522

E-MAIL: info@sidite.com

www.chinasidite.com