



Power Phase Converter 3KW~500KW

Zhejiang Sandi Electric Co., Ltd

————— www.lgis.cc —————

Company profile

Zhejiang Sandi Electric Co., Ltd is an international PV enterprise which is located in the "capital of China's electrical appliances" Wenzhou. Specialized in the new energy source and electrical source scientific research, development, manufacture and service had surpasses for 15 years.

Sandi company's products are widely applied in solar or wind energy, construction, industry, new energy source, civilian use, electric power, medical treatment, aviation, automatically control system of war industry and national heavy engineering project.

Main products: Solar off grid pure sine wave inverter, Solar pump inverter, PV Grid-connected inverter, PV array combiner box, AC/DC Charger, solar charge controller, wind-solar hybrid controller, single phase to three phase converter and etc products.

Sandi is recognized by widely customers according to entirely varieties, high quality and service first. The R&D and engineering technicians have multi-year experiences in product design, product implementation, engineering service and can manufacture the solar energy generation products with the international competition capability reaches advanced level in the world, our product have passed CE(EMC&LVD), SAA(AS4777&AS3100), G83/1, G59, VDE ARN 4105 and EN62109, EN61000 certification and approved by international standard.

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

CVT
AV TECHNOLOGY
EUROPEAN COMMUNITY – CERTIFICATE OF ADEQUACY
CERTIFICATE NUMBER GB/1067/2451/10 Issue 1

Manufacturer: YUEQING SANDI ELECTRIC CO., LTD
LWAO INDUSTRIAL ZONE, LIUSHI TOWN, YUEQING CITY,
ZHEJIANG PROVINCE, CHINA

Certificate Holder: YUEQING SANDI ELECTRIC CO., LTD
LWAO INDUSTRIAL ZONE, LIUSHI TOWN, YUEQING CITY,
ZHEJIANG PROVINCE, CHINA

Technical Reference/Date: ST/0971484-LVD ST/0971484-EMC/13th April 2010

Machine Type: PV/INVO GRID CONNECTED INVERTER

Model: SDS-800W, SDS-1100W, SDS-1.5KW, SDS-2KW, SDS-2500W, SDS-400W,
SDS-500W, SDS-600W, SDS-700W, SDS-800W, SDS-1000W, SDS-1300W, SDS-1500W,
SDS-2000W, SDS-2500W, SDS-3000W, SDS-3500W, SDS-4000W, SDS-4500W, SDS-5000W, SDS-6000W,
SDS-7000W, SDS-10000W, SDS-15000W, SDS-20000W, SDS-25000W, SDS-30000W, SDS-50000W

Applicable EC Directives: EMC Directive 2004/10/EC Annex II
LV Directive 2006/95/EC

Applicable Standards: to EN 61000-6-2, EN 61000-6-4 (EMC), EN 61558-1, EN 61558-2-17, EN 50178

Based on our review we can confirm that the technical file for the above mentioned product meets the requirements of the relevant EC Directives.

The manufacturer is responsible for certifying the product and ensuring that all manufactured products are in compliance with the specifications detailed in the construction certificate issued on 27th April 2010.

Place: Stockport, United Kingdom

Notified Body 1067

Signature: [Signature]

AVTECH House, 444/4 Avenue, Sandy Green Trading Estate, Handforth, Cheshire SK9 3BW
T: +44 (0)161 438 3737 F: +44 (0)161 438 3747 W: www.avtechnology.co.uk

SAA
APPROVALS
Certificate of Approval

Certificate No.: SAA11217
Date of Issue: 15 August 2011

SAA Approvals Pty Ltd is accredited by JAS-ANZ under ISO/IEC Guide 65 to certify that the electrical product described on this certificate conforms with the minimum safety requirements for which the application has been made.

Certificate Holder: Yueqing Sandi Electric Co., Ltd
Lwao Industrial Zone, Liushi Town,
Yueqing City, Zhejiang Province, 325604
P.R. China

Class Description: Non-Connected
Product Description: Grid connected inverter
Brand Name: SANDI
Model No.: SDS-4000
Type: SDS-4000W; volt: 300Vdc; 25A
Output: 240V 50Hz; Max: 4000W 2PMS Class I
AS 4777.2:2005
AS 4777.3:2005
AS/NZS 3100:2009 Part A1

Conditions: Nil

Approval Mark: SAA11217
Date First Registered: 15 August 2011
Date of Expiry: 15 August 2016

For and on behalf of SAA Approvals Pty Ltd

JAS-ANZ CERTIFIED

SAA
APPROVALS
Certificate of Approval

Certificate No.: SAA110092
Date of Issue: 31 January 2011

SAA Approvals Pty Ltd is accredited by JAS-ANZ under ISO/IEC Guide 65 to certify that the electrical product described on this certificate conforms with the minimum safety requirements for which the application has been made.

Certificate Holder: Yueqing Sandi Electric Co., Ltd
Lwao Industrial Zone
Liushi Town, Yueqing City
Zhejiang Province 325604
China

Class Description: Non-Connected
Product Description: Grid-connected PV Inverter
Brand Name: SANDI
Model No.: SDS-12000
Type: SDS-12000W; 40V nominal; 30MVA Class I
Output: 240V 50Hz; Max: 1200W 3P20
AS/NZS 3100:2009
AS 4777.2:2005
AS 4777.3:2005

Conditions: Nil

Approval Mark: SAA110092
Date First Registered: 31 January 2011
Date of Expiry: 31 January 2016

For and on behalf of SAA Approvals Pty Ltd

JAS-ANZ CERTIFIED

Verification of Compliance

No. EC: 1282-00140110 VSE0141
Technical Cooperation File No.: 100140179-2

Certificate's Holder: YUEQING SANDI ELECTRIC CO., LTD
Lwao Industrial Zone, Liushi Town, Yueqing City,
Zhejiang Province, China

Product: Solar Pumping Inverter
Model(s): SPH-11kW, SPH-X (pcc=5.5kW—150kW)

Directives: 2006/95/EC Low Voltage
2004/108/EC Electromagnetic Compatibility

Standards: EN 62109-1:2010, EN 62109-2:2011,
EN 61000-6-2:2007+A1:2011, EN 61000-6-4:2007,
EN 61000-3-12:2005, EN 61000-3-11:2000.

Remark: This verification of compliance has been issued on a voluntary basis. ECM certifies that a technical cooperation file (TCF) in accordance with the above listed products) The TCF substantially covers the essential requirements of the above listed Directives.
Other essential Directives have to be considered in case they are applicable.
This document is only valid for the acceptance and certification described and in conformity with the TCF issued above. Where the manufacturer is responsible for the certification of the product(s) and all accepted to perform all the necessary activities before placing the production on the market. The manufacturer is also responsible for the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Directives.
This certificate can be checked for validity at: www.ecmcertification.com

Date of issue: JANUARY 2014 Expiry date: JANUARY 2019

CE

Signature: [Signatures]

ECM Certification Manager

ECM Certification Manager

ECM Certification Manager

ECM Certification Manager

POCE
POCE Technology Co., Ltd.
Shenzhen POCE Technology Co., Ltd.
Room 501-502, Bldg. 1, Xinghua Garden, Hua'an Road,
Xixiang, Bao'an District, Shenzhen, Guangdong, China

CERTIFICATE OF CONFORMITY

Certificate No.: POCET200919ICE
Applicant: Yueqing Sandi Electric Co., Ltd
Address: Lwao Industrial Zone, Liushi Town, Yueqing City, Zhejiang Province, China

Manufacturer: Yueqing Sandi Electric Co., Ltd
Address: Lwao Industrial Zone, Liushi Town, Yueqing City, Zhejiang Province, China

Product: Inverter
Trade Name: SANDI
Model(s): SDP-300W, SDP-400W, SDP-500W, SDP-600W, SDP-700W, SDP-800W, SDP-900W, SDP-1000W, SDP-1200W, SDP-1500W, SDP-2000W, SDP-2500W, SDP-3000W, SDP-4000W, SDP-5000W, SDP-6000W, SDP-7000W, SDP-8000W, SDP-9000W, SDP-10000W, SDP-12000W, SDP-15000W, SDP-20000W, SDP-25000W, SDP-30000W, SDP-40000W, SDP-50000W, SDP-60000W, SDP-70000W, SDP-80000W, SDP-90000W, SDP-100000W

Test Report No.: POCET201019ICE
Test Standards: EN 61000-6-4:2007+A1:2011
EN 61000-6-2:2005
EN61000-3-12:2005
EN61000-3-11:2000

The EUT described above has been tested by us with the listed standards and found in compliance with the council EMC Directive 2004/108/EC. It is possible to use CE marking to demonstrate the compliance with this EMC Directive.

CE

Signature: [Signature]

POCE

For China Approvals Ltd
Date: Jan. 11, 2011

This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole production and other relevant directives have to be observed.

Web: <http://www.poce.com> Tel: +86 755 29112322 Fax: +86 755 29112320

POCE
POCE Technology Co., Ltd.
Room 501-502, Bldg. 1, Xinghua Garden, Hua'an Road,
Xixiang, Bao'an District, Shenzhen, Guangdong, China

CERTIFICATE OF CONFORMITY

Certificate No.: POCET2010090CS
Applicant: Yueqing Sandi Electric Co., Ltd
Address: Lwao Industrial Zone, Liushi Town, Yueqing City, Zhejiang Province, China

Manufacturer: Yueqing Sandi Electric Co., Ltd
Address: Lwao Industrial Zone, Liushi Town, Yueqing City, Zhejiang Province, China

Product: Inverter
Trade Name: SANDI
Model(s): SDP-300W, SDP-400W, SDP-500W, SDP-600W, SDP-700W, SDP-800W, SDP-900W, SDP-1000W, SDP-1200W, SDP-1500W, SDP-2000W, SDP-2500W, SDP-3000W, SDP-4000W, SDP-5000W, SDP-6000W, SDP-7000W, SDP-8000W, SDP-9000W, SDP-10000W, SDP-12000W, SDP-15000W, SDP-20000W, SDP-25000W, SDP-30000W, SDP-40000W, SDP-50000W, SDP-60000W, SDP-70000W, SDP-80000W, SDP-90000W, SDP-100000W

Rating: Input: 220V-600Vdc
Output: 300V-500V AC Max:800W

Test Report No.: POCET2010090CS
Test Standards: EN 60950-1:2006+A11:2009

The EUT described above has been tested by us with the listed standards and found in compliance with the council LVD Directive 2006/95/EC. It is possible to use CE marking to demonstrate the compliance with this LVD Directive.

CE

Signature: [Signature]

POCE

For China Approvals Ltd
Date: Jan. 12, 2011

This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole production and other relevant directives have to be observed.

Web: <http://www.poce.com> Tel: +86 755 29112322 Fax: +86 755 29112320

Certificate of Compliance

No. GD 102024-10210204

Certificate's Holder: Yueqing Sandi Electric Co., Ltd.
Lwao Industrial Zone, Liushi Town, Yueqing City,
Zhejiang Province, China

Certification ECM Mark: [Mark]

Product: Grid Connected Inverter
Model(s): SDS-2500W, SDS-1000W, SDS-1500W, SDS-2000W, SDS-3000W, SDS-4000W, SDS-5000W

Verification to: Standards: EN 62109-1:2010, IEC 61841, A1:2011,
EN 61000-6-2:2005, EN 61000-6-4:2007+A1:2011,
EN 61000-3-12:2005, EN 61000-3-11:2000
related to CE Directive(s): 2004/108/EC (Low Voltage), 2014/53/EU (Electromagnetic Compatibility)

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the CE marking (CE) and is in compliance with the CE marking. The CE marking is a declaration of conformity with the CE marking. The manufacturer is responsible for the CE marking of the product(s) and all accepted to perform all the necessary activities before placing the production on the market. The manufacturer is also responsible for the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Directives.
This certificate can be checked for validity at: www.ecmcertification.com

Date of Issue: 24 August 2015 Expiry date: 23 August 2020

CE

Signature: [Signatures]

ECM Certification Manager

ECM Certification Manager

ECM Certification Manager

ECM Certification Manager

SAA
APPROVALS
Certificate of Suitability

Certificate No.: SAA151839

Certificate Holder: Ety Power Australia Pty Ltd
Lot 193 Koch Road,
Thornbury, Vic 3152
Australia

Class Description: Non-Connected
Product Description: Inverter (Not connected to Grid, Stand alone)
Brand Name: Ety
Model No.: SDP-100W
Type: SDP-100W; 230V; 3000VA; 23A
Output: 230V/400V-50Hz 3P/N/PE 3x15A 10000W
DIPFC: 4-9°C; 230V, Class I
IEC 62109-1 Ed 1
IEC 62109-2 Ed 1

Conditions: Nil

Certification Mark: SAA151839 or RCM
Date First Registered: 18 September 2015
Date of Expiry: 18 September 2020

For and on behalf of SAA Approvals Pty Ltd

JAS-ANZ CERTIFIED

SAA
APPROVALS
Certificate of Suitability

Addendum

Certificate No.: SAA151839
Date of Issue: 18 September 2015

Class Description: Inverter (Not connected to Grid, Stand alone)

General Modification: Size of alternative Model name: SANDI

Additional Models	Description
SDP-300W	Input: 42-300Vdc, 100A Output: 230V/400V-50Hz 3P/N/PE 3x12A 8000W
SDP-400W	Input: 42-300Vdc, 140A Output: 230V/400V-50Hz 3P/N/PE 3x13.5A 9000W
SDP-450W	Input: 42-300Vdc, 160A Output: 230V/400V-50Hz 3P/N/PE 3x15A 9500W
SDP-500W	Input: 42-300Vdc, 175A Output: 230V/400V-50Hz 3P/N/PE 3x15.5A 10000W
SDP-600W	Input: 42-300Vdc, 195A Output: 230V/400V-50Hz 3P/N/PE 3x16.5A 10500W
SDP-700W	Input: 42-300Vdc, 215A Output: 230V/400V-50Hz 3P/N/PE 3x17.5A 11000W

For and on behalf of SAA Approvals Pty Ltd

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Product Introduction

Sandi SDT series three-phase to single-phase converter, adopted AC-DC-AC circuit structure and using SVPWM modulation control technology, which can convert ordinary single-phase power to industrial three-phase power. After through SDT series single-phase to three phase converter power conversion, the three-phase power output is standard pure sine wave, the harmonic distortion rate (THD) is less than 2%, totally meet the national standards of three-phase power quality, applicable to all types of load.

The SDT series single-phase to three-phase converter can solve production inconvenience because of some areas with the three-phase electric power restrictions, also solved some user requirements that can't apply for the three-phase electric because of space limitation.




Technical Features:

- Using the sixth generation efficient **IPM intelligent module from Japanese Mitsubishi**, **high efficiency and stable performance**. It with powerful protection function, the protection for short circuit, over load, over temperature is more safe and reliable. **It's service life can up to 15 years or more.**
- Two kinds of start mode: **Step Down Voltage Start** and **Variable Frequency Start**. Customers can set start mode according to the type of their load. This function is very convenient for users and also reduce frequency converter's usage, which reduced the cost of equipment investment, easy to connect wires and control.
- Intelligentized, modularized, simple structure design, **very easy and convenient for maintenance.**
- The **output frequency 50/60HZ can be setting via LCD panel**, it's very convenient for customer.
- The **output voltage can be set between -40 % to +20 % of rated voltage**. And the output voltage is very accuracy $\pm 1\%$.
- Pure sine wave output. With good dynamic response less than 50MS, waveform distortion rate smaller, higher conversion efficiency and stable output voltage.

- **Built-in low frequency isolation transformer**, strong impact resistance, available with motors, pump, air conditioners and other high impact equipment. At the same time DC busbar and AC busbar are completely isolated to avoid interference.
- Using SVPWM space vector algorithms, high conversion efficiency, high instantaneous power and low losses conversion efficiency up to 94%.
- **Powerful data display and fault instruction function**. LCD can display the DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code display.
- Output AC Power is suitable for all types of three phase appliances, electric tools, electric motors etc. It has higher efficiency and higher capability of driving load.
- Converter has the function of filtering the grid disturbance and interference at the same time, which is a good performance of stabilized voltage and frequency power, to provide a more stable and pure power supply environment for the backend devices.
- Output perfect protection function with under-voltage and over-voltage, overload, short circuit, over temperature, self-diagnosis protection and other protection.
- There are lightning protection device inside the converter.
- Optional **DC input** function to supplement the AC energy deficiencies.
- Wide voltage input 80-320VAC, can also customize the special voltage according to the requirements, to adapt to the working environment of the regional grid voltage is low.

1ph to 3ph/ 2ph to 3ph/ 50Hz to 60Hz Power Phase Converter

1. With low frequency transformer, 100% full power, constant voltage/frequency output.
2. Two kinds of start mode: Variable Frequency Start or Step Down Voltage Start.
3. Output frequency 50Hz/60Hz can be set, suitable for all kinds of AC load.

E-mail: carrie@sandi.cc

Technical Parameter SDT-3KW / 4KW

Model	SDT-3KW	SDT-4KW
Isolation mode	Low Frequency Transformer	
AC Input		
Rated voltage (Vac)	220V single phase	
Input rated voltage range	110/120/220/230/240Vac optional	
Rated current (A)	14A	18A
AC Output		
Rated power (Kw)	3KW	4KW
Rated voltage	380VAC	
Output voltage range	220/380/400/415/440/480Vac optional	
Output phases	3 phase 4 wires	
Rated current (A)	4.5A	6A
Output frequency	50Hz/60Hz±0.05Hz (Can be set)	
Waveform	Pure sine wave	
Voltage accuracy	Load balancing≤1%、Unbalanced load≤5%	
Waveform distortion rate (THD)	Linear load≤2%、Nonlinear load≤3%	
Unbalance ability	≤20% (long-term unbalanced load will affect the life of equipment)	
Dynamic Response	5%, ≤50ms (load 0~100%)	
Power Factor (PF)	0.99	
Inverter Efficiency	>94%	
Electrical insulation properties	2000Vac、1 Minute	
Protection Function		
Overload Ability	150%、10s	
Protection	Input under voltage, over voltage, output over-current, short circuit, over heating etc.	
Display	LCD	
Method of working	Working continuously	
Cooling method	High speed fan	
Short-circuit protection	No automatic recovery, need to restart the machine	
Working Environment & Mechanical dimension		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤2500m	
Working temperature (°C)	-15~+50°C	
Relative humidity (°C)	-25~+85°C	
Noise (1 meter)	≤50dB	
Vertical type: (W x D x H)	540×450×760mm	
Reference net weight (Kg)	60Kg	65Kg

Technical Parameter SDT-5KW / 6KW

Model	SDT-5KW	SDT-6KW
Isolation mode	Low Frequency Transformer	
AC Input		
Rated voltage (Vac)	220V single phase	
Input rated voltage range	110/120/220/230/240Vac optional	
Rated current (A)	23A	27A
AC Output		
Rated power (Kw)	5KW	6KW
Rated voltage	380VAC	
Output voltage range	220/380/400/415/440/480Vac optional	
Output phases	3 phase 4 wires	
Rated current (A)	7.6A	9A
Output frequency	50Hz/60Hz±0.05Hz (Can be set)	
Waveform	Pure sine wave	
Voltage accuracy	Load balancing≤1%、Unbalanced load≤5%	
Waveform distortion rate (THD)	Linear load≤2%、Nonlinear load≤3%	
Unbalance ability	≤20% (long-term unbalanced load will affect the life of equipment)	
Dynamic Response	5%, ≤50ms (load 0~100%)	
Power Factor (PF)	0.99	
Inverter Efficiency	>94%	
Electrical insulation properties	2000Vac、1 Minute	
Protection Function		
Overload Ability	150%、10s	
Protection	Input under voltage, over voltage, output over-current, short circuit, over heating etc.	
Display	LCD	
Method of working	Working continuously	
Cooling method	High speed fan	
Short-circuit protection	No automatic recovery, need to restart the machine	
Working Environment & Mechanical dimension		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤2500m	
Working temperature (°C)	-15~+50°C	
Relative humidity (°C)	-25~+85°C	
Noise (1 meter)	≤50dB	
Vertical type: (W x D x H)	540×450×760mm	
Reference net weight (Kg)	70Kg	75Kg

Technical Parameter SDT-10KW / 15KW

Model	SDT-10KW	SDT-15KW
Isolation mode	Low Frequency Transformer	
AC Input		
Rated voltage (Vac)	220V single phase	
Input rated voltage range	110/120/220/230/240Vac optional	
Rated current (A)	45.5A	68A
AC Output		
Rated power (Kw)	10KW	15KW
Rated voltage	380VAC	
Output voltage range	220/380/400/415/440/480Vac optional	
Output phases	3 phase 4 wires	
Rated current (A)	15A	23A
Output frequency	50Hz/60Hz±0.05Hz (Can be set)	
Waveform	Pure sine wave	
Voltage accuracy	Load balancing≤1%、Unbalanced load≤5%	
Waveform distortion rate (THD)	Linear load≤2%、Nonlinear load≤3%	
Unbalance ability	≤20% (long-term unbalanced load will affect the life of equipment)	
Dynamic Response	5%, ≤50ms (load 0~100%)	
Power Factor (PF)	0.99	
Inverter Efficiency	>94%	
Electrical insulation properties	2000Vac、1 Minute	
Protection Function		
Overload Ability	150%、10s	
Protection	Input under voltage, over voltage, output over-current, short circuit, over heating etc.	
Display	LCD	
Method of working	Working continuously	
Cooling method	High speed fan	
Short-circuit protection	No automatic recovery, need to restart the machine	
Working Environment & Mechanical dimension		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤2500m	
Working temperature (°C)	-15~+50°C	
Relative humidity (°C)	-25~+85°C	
Noise (1 meter)	≤50dB	
Vertical type: (W x D x H)	540×550×860mm	
Reference net weight (Kg)	120Kg	145Kg

Technical Parameter SDT-20KW / 25KW

Model	SDT-20KW	SDT-25KW
Isolation mode	Low Frequency Transformer	
AC Input		
Rated voltage (Vac)	220V single phase	
Input rated voltage range	110/120/220/230/240Vac optional	
Rated current (A)	91A	114A
AC Output		
Rated power (Kw)	20KW	25KW
Rated voltage	380VAC	
Output voltage range	220/380/400/415/440/480Vac optional	
Output phases	3 phase 4 wires	
Rated current (A)	30.5A	38A
Output frequency	50Hz/60Hz±0.05Hz (Can be set)	
Waveform	Pure sine wave	
Voltage accuracy	Load balancing≤1%、Unbalanced load≤5%	
Waveform distortion rate (THD)	Linear load≤2%、Nonlinear load≤3%	
Unbalance ability	≤20% (long-term unbalanced load will affect the life of equipment)	
Dynamic Response	5%, ≤50ms (load 0~100%)	
Power Factor (PF)	0.99	
Inverter Efficiency	>94%	
Electrical insulation properties	2000Vac、1 Minute	
Protection Function		
Overload Ability	150%、10s	
Protection	Input under voltage, over voltage, output over-current, short circuit, over heating etc.	
Display	LCD	
Method of working	Working continuously	
Cooling method	High speed fan	
Short-circuit protection	No automatic recovery, need to restart the machine	
Working Environment & Mechanical dimension		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤2500m	
Working temperature (°C)	-15~+50°C	
Relative humidity (°C)	-25~+85°C	
Noise (1 meter)	≤50dB	
Vertical type: (W x D x H)	540×550×860mm	600×700×1080mm
Reference net weight (Kg)	170Kg	245Kg

Technical Parameter SDT-30KW / 40KW

Model	SDT-30KW	SDT-40KW
Isolation mode	Low Frequency Transformer	
AC Input		
Rated voltage (Vac)	220V single phase	
Input rated voltage range	110/120/220/230/240Vac optional	
Rated current (A)	136A	182A
AC Output		
Rated power (Kw)	30KW	40KW
Rated voltage	380VAC	
Output voltage range	220/380/400/415/440/480Vac optional	
Output phases	3 phase 4 wires	
Rated current (A)	45.5A	61A
Output frequency	50Hz/60Hz±0.05Hz (Can be set)	
Waveform	Pure sine wave	
Voltage accuracy	Load balancing≤1%、Unbalanced load≤5%	
Waveform distortion rate (THD)	Linear load≤2%、Nonlinear load≤3%	
Unbalance ability	≤20% (long-term unbalanced load will affect the life of equipment)	
Dynamic Response	5%, ≤50ms (load 0~100%)	
Power Factor (PF)	0.99	
Inverter Efficiency	>94%	
Electrical insulation properties	2000Vac、1 Minute	
Protection Function		
Overload Ability	150%、10s	
Protection	Input under voltage, over voltage, output over-current, short circuit, over heating etc.	
Display	LCD	
Method of working	Working continuously	
Cooling method	High speed fan	
Short-circuit protection	No automatic recovery, need to restart the machine	
Working Environment & Mechanical dimension		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤2500m	
Working temperature (°C)	-15~+50°C	
Relative humidity (°C)	-25~+85°C	
Noise (1 meter)	≤50dB	
Vertical type: (W x D x H)	600x700x1080mm	600x700x1080mm
Reference net weight (Kg)	260Kg	298Kg

Technical Parameter SDT-50KW / 60KW

Model	SDT-50KW	SDT-60KW
Isolation mode	Low Frequency Transformer	
AC Input		
Rated voltage (Vac)	220V single phase	
Input rated voltage range	110/120/220/230/240Vac optional	
Rated current (A)	227A	273A
AC Output		
Rated power (Kw)	50KW	60KW
Rated voltage	380VAC	
Output voltage range	220/380/400/415/440/480Vac optional	
Output phases	3 phase 4 wires	
Rated current (A)	76A	91A
Output frequency	50Hz/60Hz±0.05Hz (Can be set)	
Waveform	Pure sine wave	
Voltage accuracy	Load balancing≤1%、Unbalanced load≤5%	
Waveform distortion rate (THD)	Linear load≤2%、Nonlinear load≤3%	
Unbalance ability	≤20% (long-term unbalanced load will affect the life of equipment)	
Dynamic Response	5%、≤50ms (load 0~100%)	
Power Factor (PF)	0.99	
Inverter Efficiency	>94%	
Electrical insulation properties	2000Vac、1 Minute	
Protection Function		
Overload Ability	150%、10s	
Protection	Input under voltage, over voltage, output over-current, short circuit, over heating etc.	
Display	LCD	
Method of working	Working continuously	
Cooling method	High speed fan	
Short-circuit protection	No automatic recovery, need to restart the machine	
Working Environment & Mechanical dimension		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤2500m	
Working temperature (°C)	-15~+50°C	
Relative humidity (°C)	-25~+85°C	
Noise (1 meter)	≤50dB	
Vertical type: (W x D x H)	600x700x1080mm	600x750x1200mm
Reference net weight (Kg)	340Kg	390Kg

Technical Parameter SDT-80KW / 100KW

Model	SDT-80KW	SDT-100KW
Isolation mode	Low Frequency Transformer	
AC Input		
Rated voltage (Vac)	220V single phase	
Input rated voltage range	220/230/240/400Vac optional	
Rated current (A)	364A	455A
AC Output		
Rated power (Kw)	80KW	100KW
Rated voltage	380VAC	
Output voltage range	220/380/400/415/440/480Vac optional	
Output phases	3 phase 4 wires	
Rated current (A)	121A	151.5A
Output frequency	50Hz/60Hz±0.05Hz (Can be set)	
Waveform	Pure sine wave	
Voltage accuracy	Load balancing≤1%、Unbalanced load≤5%	
Waveform distortion rate (THD)	Linear load≤2%、Nonlinear load≤3%	
Unbalance ability	≤20% (long-term unbalanced load will affect the life of equipment)	
Dynamic Response	5%, ≤50ms (load 0~100%)	
Power Factor (PF)	0.99	
Inverter Efficiency	>94%	
Electrical insulation properties	2000Vac、1 Minute	
Protection Function		
Overload Ability	150%、10s	
Protection	Input under voltage, over voltage, output over-current, short circuit, over heating etc.	
Display	LCD	
Method of working	Working continuously	
Cooling method	High speed fan	
Short-circuit protection	No automatic recovery, need to restart the machine	
Working Environment & Mechanical dimension		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤2500m	
Working temperature (°C)	-15~+50°C	
Relative humidity (°C)	-25~+85°C	
Noise (1 meter)	≤50dB	
Vertical type: (W x D x H)	600x750x1200mm	900x1000x1600mm
Reference net weight (Kg)	480Kg	680Kg

Technical Parameter SDT-150KW / 200KW

Model	SDT-150KW	SDT-200KW
Isolation mode	Low Frequency Transformer	
AC Input		
Rated voltage (Vac)	400V single phase	
Input rated voltage range	220/230/240/400Vac optional	
Rated current (A)	375A	500A
AC Output		
Rated power (Kw)	150KW	200KW
Rated voltage	380VAC	
Output voltage range	220/380/400/415/440/480Vac optional	
Output phases	3 phase 4 wires	
Rated current (A)	227A	303A
Output frequency	50Hz/60Hz±0.05Hz (Can be set)	
Waveform	Pure sine wave	
Voltage accuracy	Load balancing≤1%、Unbalanced load≤5%	
Waveform distortion rate (THD)	Linear load≤2%、Nonlinear load≤3%	
Unbalance ability	≤20% (long-term unbalanced load will affect the life of equipment)	
Dynamic Response	5%, ≤50ms (load 0~100%)	
Power Factor (PF)	0.99	
Inverter Efficiency	>94%	
Electrical insulation properties	2000Vac、1 Minute	
Protection Function		
Overload Ability	150%、10s	
Protection	Input under voltage, over voltage, output over-current, short circuit, over heating etc.	
Display	LCD	
Method of working	Working continuously	
Cooling method	High speed fan	
Short-circuit protection	No automatic recovery, need to restart the machine	
Working Environment & Mechanical dimension		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤2500m	
Working temperature (°C)	-15~+50°C	
Relative humidity (°C)	-25~+85°C	
Noise (1 meter)	≤50dB	
Vertical type: (W x D x H)	600x750x1200mm	1200x1000x1800mm
Reference net weight (Kg)	850Kg	1100Kg

Technical Parameter SDT-300KW / 500KW

Model	SDT-300KW	SDT-500KW
Isolation mode	Low Frequency Transformer	
AC Input		
Rated voltage (Vac)	500V single phase	
Input rated voltage range	220/230/240/400Vac optional	
Rated current (A)	600A	1000A
AC Output		
Rated power (Kw)	300KW	500KW
Rated voltage	380VAC	
Output voltage range	220/380/400/415/440/480Vac optional	
Output phases	3 phase 4 wires	
Rated current (A)	454.5A	756A
Output frequency	50Hz/60Hz±0.05Hz (Can be set)	
Waveform	Pure sine wave	
Voltage accuracy	Load balancing≤1%、Unbalanced load≤5%	
Waveform distortion rate (THD)	Linear load≤2%、Nonlinear load≤3%	
Unbalance ability	≤20% (long-term unbalanced load will affect the life of equipment)	
Dynamic Response	5%, ≤50ms (load 0~100%)	
Power Factor (PF)	0.99	
Inverter Efficiency	>94%	
Electrical insulation properties	2000Vac、1 Minute	
Protection Function		
Overload Ability	150%、10s	
Protection	Input under voltage, over voltage, output over-current, short circuit, over heating etc.	
Display	LCD	
Method of working	Working continuously	
Cooling method	High speed fan	
Short-circuit protection	No automatic recovery, need to restart the machine	
Working Environment & Mechanical dimension		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤2500m	
Working temperature (°C)	-15~+50°C	
Relative humidity (°C)	-25~+85°C	
Noise (1 meter)	≤50dB	
Vertical type: (W x D x H)	1400x1200x1800mm	1800x1600x2000mm
Reference net weight (Kg)	1300Kg	1600Kg



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