



ISO9001 CE



Off Grid Inverter

Low Frequency Pure Sine Wave

5KW-500KW

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 16 years.

Sandi company's products are widely applied in solar and wind energy system, Energy Storage System, new energy source, civilian use, electric power, medical treatment, aviation, automatically control system, train, ship, vehicle, military system and national heavy engineering project.

Main products: Off grid pure sine wave inverter, Energy Storage battery with BMS pack, solar charge controller, solar pump inverter, single phase to three phase converter, AC/DC Battery Charger products.

SANDI is recognized by widely customers according to entirely varieties, high quality and service first. The company strictly controls the product quality, strives for perfection, regards the quality as the lifeline of the company, continuously improves the quality management system, and obtains CSA/UL, CCS, ISO9001, CE certificates and approved by international standard, the continuous introduction international advanced production equipment and testing equipment to ensure product quality and timely delivery, we are people-oriented, with solid integrity and perfect service to make customers more secure use of SANDI products and get customers praise.

SANDI 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.



Product Certificates

Certificate of Compliance

Form GAI_10.M3, version 03, effective since March 20th, 2020

Certificate No. 80186554 Master Contract: 304293
 Project: 80186554 Date Issued: 2023-05-15

Issued to: Zhejiang Sandi Electric Co., Ltd.
 Building 13-2, Botong Hugu Microindustrial Zone,
 No. 66 Binshu South 4th Road, Yueqing Economic
 Development Zone, Yueqing City, Zhejiang
 Province, 325604, China

Attention: Jun Zhuo

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only

Issued by: Magic Zhang
 Magic Zhang

PRODUCTS
 CLASS 5111 09 - POWER SUPPLIES - Distributed Generation Power Systems Equipment
 CLASS 5111 89 - POWER SUPPLIES - Distributed Generation Power Systems Equipment - Certified to U.S. Standards
 Off Grid Inverter, Models SPD-5KW, SPD-10KW, SPD-15KW, SPD-20KW, SPD-25KW, SPD-30KW, SPD-40KW, SPD-50KW, SPD-60KW, SPD-80KW, SPD-100KW, SPD-120KW, SPD-150KW, SPD-200KW and SPD-250KW with battery input, permanently connected.

APPLICABLE REQUIREMENTS
 CSA-C222 No.107.1-16 Power Conversion Equipment

Certificate of Compliance

Form GAI_10.M3, version 03, effective since March 20th, 2020

Certificate No. 08222051256040

Certificate's Holder: Zhejiang Sandi Electric Co., Ltd.
 Room 13-2, Botong Hugu Microindustrial Zone,
 No. 66 Binshu South 4th Road, Yueqing Economic
 Development Zone, Yueqing City, Zhejiang
 Province, China

Certification ECM Mark:

Product: Off Grid Inverter
 Model(s): (see the following annex)

Verification to: Standard: EN 62109-1:2010, EN 62109-2:2011,
 EN IEC 61000-6-4:2019,
 EN IEC 61000-3-11:2019, EN 61000-3-12:2011,
 EN IEC 61000-3-11:2019,
 UL 458:2015, CSA C222 No. 107.1-16
 related to CE Directive(s):
 2014/30/EU (Low Voltage)
 2014/53/EU (Electromagnetic Compatibility)

Remark: The document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the recognition of the ECM Certification Mark. The conformity must always be checked on the product according to the ECM regulation about its release and/or recall.

Additional information and classification about the Marking:
 The manufacturer is responsible for the CE Marking process, and if necessary, must refer to a notified body. This document has been issued on the basis of the registration on the CE Marking portal for the certification of products. ISET Certification Machine Srl is available for CE Marking services. Tel: +39 051 4703156 - info@isetcert.com - www.isetcert.com

Issuance date: 01 March 2022
 Expiry date: 28 February 2027

中国船级社
 CHINA CLASSIFICATION SOCIETY
 型式认可证书
CERTIFICATE OF TYPE APPROVAL

证书编号 Certificate No. ZC221780011

证书说明
 本证书证明制造商符合中国船级社(CCS)型式认可证书的要求。本证书的有效性依赖于制造商持续符合本证书所规定的技术要求。制造商有责任确保其产品在符合本证书要求的前提下进行生产。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the design and construction to produce the products described in the certificate.

制造商/Manufacturer: 浙江三迪电气有限公司
 Zhejiang Sandi Electric Co., Ltd.

地址/Address: 浙江省温州市乐清市经济开发区滨海新城第四区块13-2号
 Building 13-2 Botong Hugu, No. 66 Binshu South 4th Road, Yueqing Economic Development Zone, Yueqing City, Zhejiang Province, 325604, China

产品名称/Product: 逆变器
 Inverter

认可标准/Approval Standard: GB/T 19913-2013 (等同采用 IEC 60088-1:2002) 及 GB/T 19913-2013 附录 A
 Chapter 1, Part Four of China Classification Society Rules for Classification of Sea-Going Steel Ships 2022 and its Change Notices

符合标准 for: GB/T 19913-2013 (等同采用 IEC 60088-1:2002) 及 GB/T 19913-2013 附录 A

产品描述/Product Description:

项次/Item	名称/Name	参数/Parameter	单位/Unit
1	额定功率/Rated Power	10000	W
2	额定电压/Rated Voltage	48V	V
3	额定电流/Rated Current	100	A
4	额定功率因数/Rated Power Factor	0.95	
5	额定效率/Rated Efficiency	95	%
6	额定功率因数/Rated Power Factor	0.95	
7	额定功率因数/Rated Power Factor	0.95	
8	额定功率因数/Rated Power Factor	0.95	
9	额定功率因数/Rated Power Factor	0.95	
10	额定功率因数/Rated Power Factor	0.95	

证书的有效性/Validity: 自 2022 年 03 月 01 日起至 2027 年 02 月 28 日止

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Registration Number: 04822Q40373R08

This is to certify that

United States Code 29 USC 1802(b)(7)(B)

ZHEJIANG SANDI ELECTRIC CO., LTD.

Registered Address: Room 13-2, Building 13, Botong Hugu Microindustrial Zone, No. 66 Binshu South 4th Road, Yueqing Economic Development Zone, Yueqing City, Zhejiang Province, 325604, China

Registered Address: 乐清市经济开发区滨海新城第四区块13-2号
 Building 13-2, Botong Hugu Microindustrial Zone, No. 66 Binshu South 4th Road, Yueqing Economic Development Zone, Yueqing City, Zhejiang Province

has implemented a quality management system for compliance with this standard:
 GB/T 19001-2016/ISO 9001:2015

The quality management system for the following scope:
 Production and related management activities of EMS lithium battery energy storage cabinet, inverter, combiner box, photovoltaic control box and charging cabinet.

Valid date: 2022-05-31 - 2025-05-30
 Issued date: 2022-05-31

Signed by: 胡华平

CERTIFICATE OF COMPLIANCE

Certificato di Conformità - Conformità con norme - Konformitätsbescheinigung

ISSET S.p.A.

1) APPLICANT: Zhejiang Sandi Electric Co., Ltd.
 Low Industrial Zone Lushu Town, Yueqing City, Zhejiang Province China

2) CERTIFICATE NO.: IT01082520400029

TEST REPORT NO.: PCE 1600230853 for LVD
 PCE 1601216382 for EMC
 Issued by: PCE Technology Co., Ltd.

3) WITH REFERENCE TO EC DIRECTIVE APPLIED: Low Voltage Directive 2014/35/EU
 Electromagnetic Compatibility (EMC) Directive 2014/53/EU

4) CERTIFICATION ISET MARK:

HARMONIZED STANDARDS APPLIED:
 EN 60950-1:2005+A1:2009+A2:2013
 EN 50178:1998/EN 50178:2005
 EN 61000-6-4:2007+A1:2011
 EN 61000-3-2:2014/EN 61000-3-3:2013

5) PRODUCT CHARACTERISTICS: Solar Charge Controller
 MODEL: SDC20V1-100A, SDC20V48V/90A, SDC20V24V/210A, SDC20V24V/280V

REMARK: The verification has been carried out on a voluntary basis and upon request of the manufacturer based only on the documents prepared and provided by the manufacturer. The products satisfy the requirements of the Certification Mark of ISET according to the ISET regulation. The manufacturer is responsible to maintain the conformity of the products with the CE Marking process, and if necessary, must refer to a notified body. This document has been issued on the basis of the registration on the CE Marking portal for the certification of products. ISET Certification Machine Srl is available for CE Marking services. Tel: +39 051 4703156 - info@isetcert.com - www.isetcert.com

DATE OF ISSUE: 29/04/2016 DATE OF EXPIRE: 29/08/2021

防爆合格证
 EXPLOSION PROOF CERTIFICATE OF EXPL-20-00-PROOF

证书编号: CITCEX22-1033

证书名称: 浙江三迪电气有限公司
 防爆合格证
 防爆标志: Ex ib III T4 Gb

额定电压: AC 300/220V; 额定电流: 45A; 外壳防护等级: IP54.

主要技术指标:
 防爆型式: Ex ib III T4 Gb

说明事项:
 本证书的有效性依赖于制造商持续符合本证书所规定的技术要求。制造商有责任确保其产品在符合本证书要求的前提下进行生产。

长沙矿山研究院有限公司
 国家安全生产应急救援中心
 国家安全生产应急救援中心
 CHANGSHA INSTITUTE OF MINING RESEARCH CO., LTD.

有效期: 2022年10月31日至2027年10月30日

Certificate of Compliance

Form GAI_10.M3, version 03, effective since March 20th, 2020

Certificate No. 08222051256052

Certificate's Holder: Zhejiang Sandi Electric Co., Ltd.
 Room 13-2, Botong Hugu Microindustrial Zone,
 No. 66 Binshu South 4th Road, Yueqing Economic
 Development Zone, Yueqing City, Zhejiang
 Province, China

Certification ECM Mark:

Product: Solar Pump Inverter
 Model(s): SPI-11kW, SPI-xx(x=5,5kw-300kw)

Verification to: Standard: EN 62109-1:2010, EN 62109-2:2011,
 EN IEC 61000-6-4:2019,
 EN IEC 61000-3-11:2019, EN 61000-3-12:2011,
 EN IEC 61000-3-11:2019
 related to CE Directive(s):
 2014/30/EU (Low Voltage)
 2014/53/EU (Electromagnetic Compatibility)

Remark: The document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the recognition of the ECM Certification Mark. The conformity must always be checked on the product according to the ECM regulation about its release and/or recall.

Additional information and classification about the Marking:
 The manufacturer is responsible for the CE Marking process, and if necessary, must refer to a notified body. This document has been issued on the basis of the registration on the CE Marking portal for the certification of products. ISET Certification Machine Srl is available for CE Marking services. Tel: +39 051 4703156 - info@isetcert.com - www.isetcert.com

Issuance date: 24 February 2022
 Expiry date: 24 February 2027

质量管理体系认证证书

证书注册号: 04822Q40373R08

浙江三迪电气有限公司

注册地址: 浙江省温州市乐清市经济开发区滨海新城第四区块13-2号
 乐清市经济开发区滨海新城第四区块13-2号
 乐清市经济开发区滨海新城第四区块13-2号

建立的质量管理体系符合标准:
 GB/T 19001-2016/ISO 9001:2015

通过认证范围如下:
 BMS锂电储能柜、逆变器、汇流箱、光伏控制器、
 充电桩的生产及相关管理活动。

本证书有效期: 2022-05-31 - 2025-05-30
 发证日期: 2022-05-31

胡华平

Certificate of Compliance

Form GAI_10.M3, version 03, effective since March 20th, 2020

Certificate No. 08222081025E7W32

Certificate's Holder: Zhejiang Sandi Electric Co., Ltd.
 Room 13-2, Botong Hugu Microindustrial Zone,
 No. 66 Binshu South 4th Road, Yueqing Economic
 Development Zone, Yueqing City, Zhejiang
 Province, China

Certification ECM Mark:

Product: Life PO4 Battery Pack
 Model(s): SPVU-10-400KWH(10-800KWH)

Verification to: Standard: EN 62109-1:2010, EN 62109-2:2011,
 EN IEC 61000-6-4:2019, EN IEC 61000-3-11:2019,
 UL 1741:2021, CSA C22.2 NO. 107.1-16
 related to CE Directive(s):
 2014/30/EU (Low Voltage)
 2014/53/EU (Electromagnetic Compatibility)

Remark: The document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the recognition of the ECM Certification Mark. The conformity must always be checked on the product according to the ECM regulation about its release and/or recall.

Additional information and classification about the Marking:
 The manufacturer is responsible for the CE Marking process, and if necessary, must refer to a notified body. This document has been issued on the basis of the registration on the CE Marking portal for the certification of products. ISET Certification Machine Srl is available for CE Marking services. Tel: +39 051 4703156 - info@isetcert.com - www.isetcert.com

Issuance date: 09 August 2022
 Expiry date: 09 August 2027

Product Introduction

SANDI *Pure Sine Wave Off Grid Inverter* is the one of the most advanced technology DC to AC conversion products in the world, it's suitable use for areas without electricity, providing a complete power solution for strict demand applications. With SVPWM technology it has high conversion efficiency, high instantaneous power and low losses power output pure sine wave, applying to capacitive, inductive and nonlinear mixed-load, with superior load capacity, perfect protection function: overload, short circuit, low/over voltage, improper operation etc, which won't cause mechanical failures. This Inverter is very suitable for solar power systems, wind power generation systems, wind and solar hybrid generation systems. The inverter can supply AC power to all kinds of electric equipment, such as air conditioners, motors, compressors, CNC machines, medical equipment and other industrial power supply.

Technical Features:

- ✧ The core components are all imported, adopting the sixth generation IPM module from Mitsubishi, which has stable performance, long service life. It with powerful protection function for short circuit, over load, over temperature is more safe and reliable, the designed service life can up to 12 years or more.
- ✧ Adopt the central processor DSP28335 chip from American TI Company, respond quickly and accurately, and provide stable and clean power for the load to provide protection.
- ✧ The whole machine adopts modular design and plug-in design, which is convenient for maintenance and reduces the hidden cost of machine failure to repair.
- ✧ According to the product configuration conditions, adjustment the system usage mode: DC(Battery/Solar) priority or AC mains bypass priority can be set.
- ✧ Two kinds of start mode: Reduction 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.
- ✧ The output voltage and frequency can be set via LCD screen, it's convenient for customer flexibly use.
- ✧ The DC input voltage can be set. Over-voltage, under-voltage, over-voltage recovery, under-voltage recovery all can be setting via the LCD panel.
- ✧ Built-in low frequency isolation transformer, strong impact resistance, at the same time DC busbar and AC busbar are completely isolated to avoid interference. It has higher efficiency and higher capability of driving load.
- ✧ Wide input voltage can be set according to customer's requirement. Input voltage range can be selected from 100-300V, 200-500V or 500-850V, suitable for solar system without backup batteries, it can save many cost and maximization use the solar system.
- ✧ Using SVPWM space vector algorithms, high conversion efficiency, high instantaneous power and low losses conversion efficiency up to 93%.

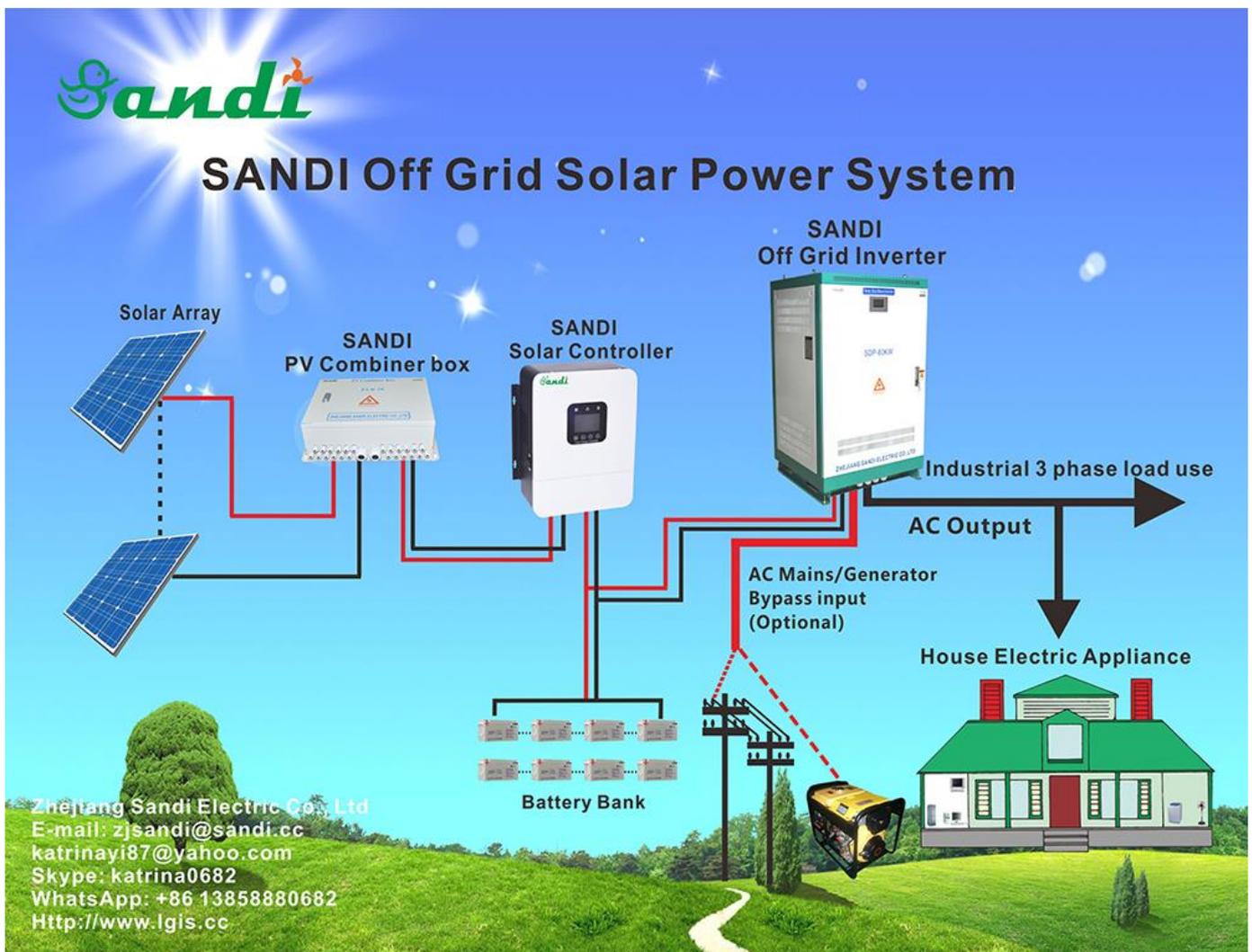
- ✧ Powerful data display function. LCD display, can display input and output voltage, current, KWH, fault display, convenient for customers to quickly find faults and guide maintenance.
- ✧ Meet the CSA/UL, CE, CCS and ISO9001 certificates.

[Optional]

- ✧ **RS485 or CAN communication;**
- ✧ **AC bypass input function;**
- ✧ **Built-in Solar controller and AC charger optional;**

Solar Off-grid power system

PV Off-grid solar power generation system including solar panel array, solar charge controller, storage battery, Off-grid inverter, PV combiner box and etc. In the sunshine, the solar panel convert the solar energy to DC power and charge the battery group by the charge controller. Then the off grid inverter convert the DC power into AC power for power supply the AC load.



Technical Parameter

Model	SDP-5KW		SDP-6KW	
Isolation mode	Low Frequency Transformer			
DC Input				
Rated voltage (Vdc)	96Vdc	120Vdc	96Vdc	192Vdc
Rated current (A)	52A	42A	62.5A	31A
Input voltage range (Vdc)	86~140V	108~175V	86~140V	172~280V
AC Output				
Rated power (Kw)	5KW		6KW	
Rated voltage	220V±3%	380V±3%	220V±3%	380V±3%
Number of phases	1 phase 2 wire	3 phase 4 wire	1 phase 2 wire	3 phase 4 wire
Rated current (A)	23A	7.5A	27A	9A
Rated output voltage range (V)	110/120/220/230/240/380/400/415/440/480VAC (optional)			
Output frequency	50Hz or 60Hz ±0.05 (Can set)			
Waveform	Pure sine wave			
Waveform distortion rate (THD)	Linear load≤3%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、 1 Minute			
Protection Function				
Overload Ability	120%、 30s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface	RS485 or CAN (optional)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
Working Environment & Mechanical dimension				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤3000m			
Working temperature (°C)	-20~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤55dB			
Unit size: (W x D x H)	500×450×730mm			
Reference weight (Kg)	72Kg		84Kg	
Our company can adjust parameter configuration according to user's requirement.				

Technical Parameter

Model	SDP-8KW		SDP-10KW	
Isolation mode	Low Frequency Transformer			
DC Input				
Rated voltage (Vdc)	120Vdc	192Vdc	192Vdc	240Vdc
Rated current (A)	67A	42A	52A	42A
Input voltage range (Vdc)	108~175V	172~275V	172~275V	216~340V
AC Output				
Rated power (Kw)	8KW		10KW	
Rated voltage	220V±3%	380V±3%	220V±3%	380V±3%
Number of phases	1 phase 2 wire	3 phase 4 wire	1 phase 2 wire	3 phase 4 wire
Rated current (A)	36A	12A	45.5A	15A
Rated output voltage range (V)	110/120/220/230/240/380/400/415/440/480VAC (optional)			
Output frequency	50Hz or 60Hz ±0.05 (Can set)			
Waveform	Pure sine wave			
Waveform distortion rate (THD)	Linear load≤3%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、 1 Minute			
Protection Function				
Overload Ability	120%、 30s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 or CAN (optional)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
Working Environment & Mechanical dimension				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤3000m			
Working temperature (°C)	-20~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤55dB			
Unit size: (W x D x H)	550×550×860mm			
Reference weight (Kg)	105Kg		115Kg	
Our company can adjust parameter configuration according to user's requirement.				

Technical Parameter

Model	SDP-15KW		SDP-20KW	
Isolation mode	Low Frequency Transformer			
DC Input				
Rated voltage (Vdc)	192Vdc	240Vdc	240Vdc	360Vdc
Rated current (A)	78A	62.5A	83A	55.5A
Input voltage range (Vdc)	172~275V	216~340V	216~340V	324~480V
AC Output				
Rated power (Kw)	15KW		20KW	
Rated voltage	220V±3%	380V±3%	220V±3%	380V±3%
Number of phases	1 phase 2 wire	3 phase 4 wire	1 phase 2 wire	3 phase 4 wire
Rated current (A)	68A	23A	90A	30A
Rated output voltage range (V)	110/120/220/230/240/380/400/415/440/480VAC (optional)			
Output frequency	50Hz or 60Hz ±0.05 (Can set)			
Waveform	Pure sine wave			
Waveform distortion rate (THD)	Linear load≤3%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
Protection Function				
Overload Ability	120%、30s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 or CAN (optional)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
Working Environment & Mechanical dimension				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤3000m			
Working temperature (°C)	-20~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤60dB			
Unit size: (W x D x H)	550×550×860mm			
Reference weight (Kg)	155Kg		170Kg	
Our company can adjust parameter configuration according to user's requirement.				

Technical Parameter

Model	SDP-25KW		SDP-30KW	
Isolation mode	Low Frequency Transformer			
DC Input				
Rated voltage (Vdc)	240Vdc	360Vdc	240Vdc	360Vdc
Rated current (A)	104A	69.5A	125A	83A
Input voltage range (Vdc)	216~340V	324~480V	216~340V	324~480V
AC Output				
Rated power (Kw)	25KW		30KW	
Rated voltage	220V±3%	380V±3%	220V±3%	380V±3%
Number of phases	1 phase 2 wire	3 phase 4 wire	1 phase 2 wire	3 phase 4 wire
Rated current (A)	114A	38A	136A	45.5A
Rated output voltage range (V)	110/120/220/230/240/380/400/415/440/480VAC (optional)			
Output frequency	50Hz or 60Hz ±0.05 (Can set)			
Waveform	Pure sine wave			
Waveform distortion rate (THD)	Linear load≤3%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
Protection Function				
Overload Ability	120%、30s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 or CAN (optional)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
Working Environment & Mechanical dimension				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤3000m			
Working temperature (°C)	-20~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤60dB			
Unit size: (W x D x H)	700×600×1080mm			
Reference weight (Kg)	230Kg		257Kg	
Our company can adjust parameter configuration according to user's requirement.				

Technical Parameter

Model	SDP-40KW		SDP-50KW	
Isolation mode	Low Frequency Transformer			
DC Input				
Rated voltage (Vdc)	360Vdc	384Vdc	360Vdc	384Vdc
Rated current (A)	111A	104A	139A	130A
Input voltage range (Vdc)	324~480V	345~550V	324~480V	345~550V
AC Output				
Rated power (Kw)	40KW		50KW	
Rated voltage	220V±3%	380V±3%	220V±3%	380V±3%
Number of phases	1 phase 2 wire	3 phase 4 wire	1 phase 2 wire	3 phase 4 wire
Rated current (A)	182A	60A	227A	76A
Rated output voltage range (V)	220/230/240/380/400/415/440/480VAC (optional)			
Output frequency	50Hz or 60Hz ±0.05 (Can set)			
Waveform	Pure sine wave			
Waveform distortion rate (THD)	Linear load≤3%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
Protection Function				
Overload Ability	120%、30s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD+LED			
Communication interface (optional)	RS485 or CAN (optional)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
Working Environment & Mechanical dimension				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤3000m			
Working temperature (°C)	-20~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤60dB			
Unit size: (W x D x H)	750×650×1200mm			
Reference weight (Kg)	320Kg		360Kg	
Our company can adjust parameter configuration according to user's requirement.				

Technical Parameter

Model	SDP-60KW		SDP-80KW	
Isolation mode	Low Frequency Transformer			
DC Input				
Rated voltage (Vdc)	384Vdc	480Vdc	384Vdc	480Vdc
Rated current (A)	104A	125A	208A	167A
Input voltage range (Vdc)	345~550V	432~650V	345~550V	432~650V
AC Output				
Rated power (Kw)	60KW			80KW
Rated voltage	220V±3%	380V±3%	220V±3%	380V±3%
Number of phases	1 phase 2 wire	3 phase 4 wire	1 phase 2 wire	3 phase 4 wire
Rated current (A)	273A	91A	364A	121A
Rated output voltage range (V)	220/230/240/380/400/415/440/480VAC (optional)			
Output frequency	50Hz or 60Hz ±0.05 (Can set)			
Waveform	Pure sine wave			
Waveform distortion rate (THD)	Linear load≤3%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
Protection Function				
Overload Ability	120%、30s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 or CAN (optional)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
Working Environment & Mechanical dimension				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤3000m			
Working temperature (°C)	-20~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤60dB			
Unit size: (W x D x H)	750×750×1485mm			
Reference weight (Kg)	420Kg		490Kg	
Our company can adjust parameter configuration according to user's requirement.				

Technical Parameter

Model	SDP-100KW		SDP-150KW	
Isolation mode	Low Frequency Transformer			
DC Input				
Rated voltage (Vdc)	384Vdc	480Vdc	480Vdc	540Vdc
Rated current (A)	260.5A	208A	312.5A	278A
Input voltage range (Vdc)	345~550V	432~650V	432~650V	486~750V
AC Output				
Rated power (Kw)	100KW		150KW	
Rated voltage	380V±3%		380V±3%	
Number of phases	3 phase 4 wire		3 phase 4 wire	
Rated current (A)	151.5A		227A	
Rated output voltage range (V)	220/230/240/380/400/415/440/480VAC (optional)			
Output frequency	50Hz or 60Hz ±0.05 (Can set)			
Waveform	Pure sine wave			
Waveform distortion rate (THD)	Linear load≤3%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
Protection Function				
Overload Ability	120%、30s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 or CAN (optional)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
Working Environment & Mechanical dimension				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤3000m			
Working temperature (°C)	-20~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤60dB			
Unit size: (W x D x H)	750×750×1485mm		1000×1150×1860mm	
Reference weight (Kg)	750Kg		1050Kg	
Our company can adjust parameter configuration according to user's requirement.				

Technical Parameter

Model	SDP-200KW		SDP-250KW	
Isolation mode	Low Frequency Transformer			
DC Input				
Rated voltage (Vdc)	480Vdc	540Vdc	540Vdc	600Vdc
Rated current (A)	417A	370A	463A	417A
Input voltage range (Vdc)	432~650V	486~750V	486~750V	540~850V
AC Output				
Rated power (Kw)	200KW		250KW	
Rated voltage	380V±3%		380V±3%	
Number of phases	3 phase 4 wire		3 phase 4 wire	
Rated current (A)	303A		379A	
Rated output voltage range (V)	220/230/240/380/400/415/440/480VAC (optional)			
Output frequency	50Hz or 60Hz ±0.05 (Can set)			
Waveform	Pure sine wave			
Waveform distortion rate (THD)	Linear load≤3%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
Protection Function				
Overload Ability	120%、30s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 or CAN (optional)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
Working Environment & Mechanical dimension				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤3000m			
Working temperature (°C)	-20~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤60dB			
Unit size: (W x D x H)	1000×1150×1860mm			
Reference weight (Kg)	1150Kg		1300Kg	
Our company can adjust parameter configuration according to user's requirement.				

Technical Parameter

Model	SDP-300KW	SDP-400KW
Isolation mode	Low Frequency Transformer	
DC Input		
Rated voltage (Vdc)	600V	
Rated current (A)	500A	667A
Input voltage range (Vdc)	540~850V	540~850V
AC Output		
Rated power (Kw)	300KW	400KW
Rated voltage	380V±3%	380V±3%
Number of phases	3 phase 4 wire	3 phase 4 wire
Rated current (A)	454.5A	606A
Rated output voltage range (V)	220/230/240/380/400/415/440/480VAC (optional)	
Output frequency	50Hz or 60Hz ±0.05 (Can set)	
Waveform	Pure sine wave	
Waveform distortion rate (THD)	Linear load≤3%	
Dynamic Response time (Load 0←→100%)	5%, ≤50ms	
Power Factor (PF)	0.99	
Inverter Efficiency	>93%	
Electrical insulation properties	2000Vac、1 Minute	
Protection Function		
Overload Ability	120%、30s	
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.	
Display	LCD	
Communication interface (optional)	RS485 or CAN (optional)	
Method of working	Working continuously	
Cooling method	Fan-cooled	
Short-circuit protection	No automatic recovery, need to restart the machine	
Working Environment & Mechanical dimension		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤3000m	
Working temperature (°C)	-20~+50°C	
Relative humidity (°C)	0~90%, No condensation	
Noise (1 meter)	≤65dB	
Unit size: (W x D x H)	1600×1600×2000mm	
Reference weight (Kg)	2300Kg	2600Kg
Our company can adjust parameter configuration according to user's requirement.		

Technical Parameter

Model	SDP-500KW
Isolation mode	Low Frequency Transformer
DC Input	
Rated voltage (Vdc)	600V
Rated current (A)	833A
Input voltage range (Vdc)	540~850V
AC Output	
Rated power (Kw)	500KW
Rated voltage	380V±3%
Number of phases	3 phase 4 wire
Rated current (A)	757.5A
Rated output voltage range (V)	220/230/240/380/400/415/440/480VAC (optional)
Output frequency	50Hz or 60Hz ±0.05 (Can set)
Waveform	Pure sine wave
Waveform distortion rate (THD)	Linear load≤3%
Dynamic Response time (Load 0←→100%)	5%, ≤50ms
Power Factor (PF)	0.99
Inverter Efficiency	>93%
Electrical insulation properties	2000Vac、1 Minute
Protection Function	
Overload Ability	120%、30s
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.
Display	LCD
Communication interface (optional)	RS485 or CAN (optional)
Method of working	Working continuously
Cooling method	Fan-cooled
Short-circuit protection	No automatic recovery, need to restart the machine
Working Environment & Mechanical dimension	
Degree of protection	IP20 (indoor)
Working Altitude (m)	≤3000m
Working temperature (°C)	-20~+50°C
Relative humidity (°C)	0~90%, No condensation
Noise (1 meter)	≤65dB
Unit size: (W x D x H)	1600×1600×2000mm
Reference weight (Kg)	3200Kg
Our company can adjust parameter configuration according to user's requirement.	

Project Case







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