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## Off Grid Solar Inverter

**SANDI ELECTRIC CO., LTD.**

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## Company profile

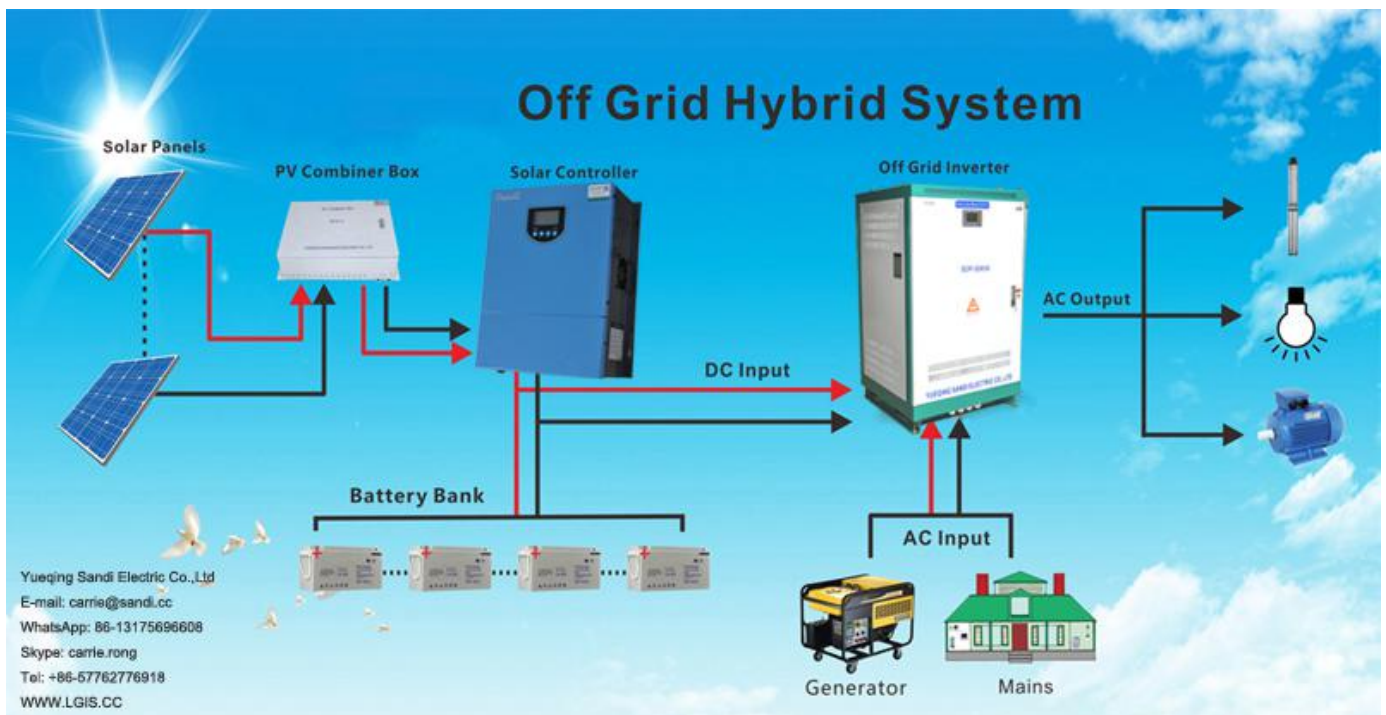
Yueqing Sandi Electric Co., Ltd specialized in the new energy source and electrical source scientific research, development, manufacture and service had surpasses for 15 years of electrical source field; which recognized by widely customers according to entirely varieties, high quality and service first. 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.

## Off Grid Solar Hybrid System



# Qualification certificate



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

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

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

**Technical Reference/Date:** SIT/09T1484-LVD SIT/09T1483-EMC/15<sup>th</sup> April 2010

**Machine Type:** PV/WIND GRID CONNECTED INVERTER

**Model:** SDS-500W, SDS-1KW, SDS-1.5KW, SDS-2KW, SDS-3KW, SDS-4KW, SDS-5KW, SDS-6KW, SDS-7KW, SDS-8KW, SDS-10KW, SDS-11KW, SDS-13KW, SDS-15KW, SDS-20KW, SDS-25KW, SDS-30KW, SDS-35KW, SDS-40KW, SDS-45KW, SDS-50KW, SDS-60KW, SDS-70KW, SDS-80KW, SDS-100KW, SDS-120KW, SDS-150KW, SDS-200KW, SDS-300KW, SDS-500KW, SDS-800KW

**Applicable EC Directives:** EMC Directive 2004/108/EC Annex II  
LV Directive 2006/95/EC

**Applicable Standards:** to EN 61000-6-2, EN 61000-6-4 (EMC), EN 61558-1, EN 61558-2-12, 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 file.

**Certificate Issued:** 28<sup>th</sup> April 2010

**Place:** Stockport, United Kingdom

**Signature:** 

**Notified Body 1067**

AVTECH House, 40th Avenue, Stanley Green Trading Estate, Mansfield, Dudley, S80 3BB  
T: +44 (0)161 486 3737 F: +44 (0)161 486 3747 W: www.avtechology.co.uk



**SAA**  
APPROVALS®

**Certificate of Approval**

**Certificate No.:** SAA111217  
**Date of Issue:** 15 August 2011

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

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

**Class Description:** Non-Standard  
**Product Description:** Grid-connected inverter  
**Brand Name:** SANDI  
**Model No.:** SDS-40W  
**Marking:** Input: 100-500VAC; com: 300VAC 25A  
Output: 240V 50Hz Max: 4000W IP65 Class I  
AS 4777.3:2005  
AS/NZS 3100:2009 Inc A1  
IEC 61777-2:08

**Conditions:** SAA111217

**Approval Mark:** 

**Date First Registered:** 15 August 2011  
**Date of Expiry:** 15 August 2016

For and on Behalf of  
SAA Approvals Pty Ltd

JAS-ANZ  
www.jas-anz.org.au



**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 certifies that the electrical product described on this certificate complies with the minimum safety requirements for which the application has been made.

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

**Class Description:** Non-Standard  
**Product Description:** Grid-connected PV Inverter  
**Brand Name:** SANDI  
**Model No.:** SDS-500W  
**Markings:** Input: 100-480V ac; nominal 360VDC 50A Class I  
Output: 240V 50Hz Max 300W IP20  
AS/NZS 3100:2009  
AS 4777.3:2005  
AS 4777.3:2005  
IEC 61777-2:08

**Conditions:** SAA110092

**Approval Mark:** 

**Date First Registered:** 31 January 2011  
**Date of Expiry:** 31 January 2016

For and on Behalf of  
SAA Approvals Pty Ltd

JAS-ANZ  
www.jas-anz.org.au



**Verification of Compliance**

No. EC: 1282 OD 140110 YSE0141  
Technical Construction File No. SD116000791-S01-16000792

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

**Product:** Solar Pumping Inverter  
**Model(s):** SPI-11KW, SPI-xx (xx=5.5kW—150kW)

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

**Standards:** EN 62108-1:2010, EN 62108-2:2011,  
EN 61000-6-2:2007+A1:2011, EN 61000-6-1:2007,  
EN 61000-3-12:2005, EN 61000-3-11:2000

**Remark:** This Verification of Compliance has been issued on a voluntary basis. ECM confirms that a Technical Construction File (TCF) is retained for the above listed products). The TCF substantially covers the essential requirements of the above listed Directives). Other relevant Directives have to be observed in case they are applicable. This Document is only valid for the equipment and configuration described and in conjunction with the TCF attached above. Whereas the Manufacturer is responsible of the certification of the products and not exempted to perform all the necessary activities before placing the product(s) on the market, the Manufacturer is also responsible of 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.entec.com.cn

**Date of issue:** JANUARY 2014  
**Expiry date:** JANUARY 2019

**Certification Chief Manager:** 

**Certification Deputy Manager:** 

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**POCE**  
POCE Technology

**Certificate of Conformity**

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

**Certificate No.:** POCE12010916CE

**Applicant:** Yueqing Sandi Electric Co., Ltd.  
**Address:** Liao Industrial Zone, Liushi Town, Yueqing City, Zhejiang Province, China

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

**Product:** Inverter

**Trade Name:** SANDI

**Model(s):** SDP-20KW, SDP-4KW, SDP-5KW, SDP-6KW, SDP-7KW, SDP-8KW, SDP-10KW, SDP-12KW, SDP-15KW, SDP-23KW, SDP-30KW, SDP-40KW, SDP-50KW, SDP-60KW, SDP-70KW, SDP-80KW, SDP-100W, SDP-150W, SDP-200W, SDP-250W, SDP-300W, SDP-400W, SDP-500W

**Test Report No.:** POCE12010916RE

**Test Standards:** EN 61000-6-4:2007+A1:2011  
EN 61000-6-2:2005  
EN 61000-3-12:2005  
EN 61000-3-11:2000

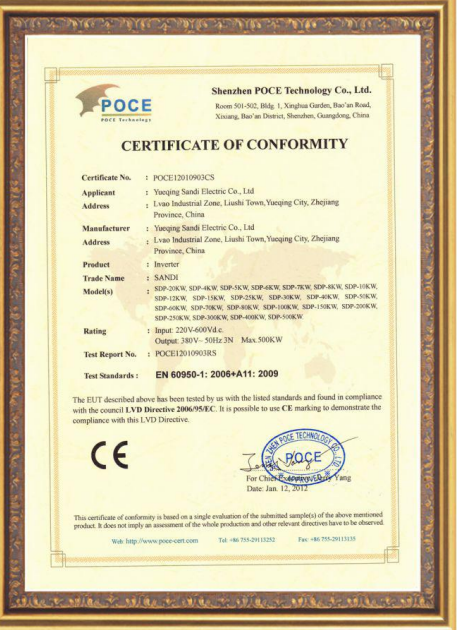
The EUT described above has been tested by us with the listed standards and found in compliance with the council EMC Directive 2004/108/EC. It is possible to use CE marking to demonstrate the compliance with this EMC Directive.

**CE**

For Chief Engineer  
Date: Jan. 12, 2012

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.

Website: www.poce-cert.com Tel: +86-755-29112522 Fax: +86-755-29113133



**POCE**  
POCE Technology

**Certificate of Conformity**

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

**Certificate No.:** POCE12010916CS

**Applicant:** Yueqing Sandi Electric Co., Ltd.  
**Address:** Liao Industrial Zone, Liushi Town, Yueqing City, Zhejiang Province, China

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

**Product:** Inverter

**Trade Name:** SANDI

**Model(s):** SDP-20KW, SDP-4KW, SDP-5KW, SDP-6KW, SDP-7KW, SDP-8KW, SDP-10KW, SDP-12KW, SDP-15KW, SDP-23KW, SDP-30KW, SDP-40KW, SDP-50KW, SDP-60KW, SDP-70KW, SDP-80KW, SDP-100W, SDP-150W, SDP-200W, SDP-250W, SDP-300W, SDP-400W, SDP-500W

**Rating:** Input: 220V-600V ac  
Output: 280V - 50Hz 2N Max: 500kW

**Test Report No.:** POCE12010916RS

**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**

For Chief Engineer  
Date: Jan. 12, 2012

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.

Website: www.poce-cert.com Tel: +86-755-29112522 Fax: +86-755-29113133

## Introduction

SANDI SDP series **Low Frequency Off Grid Pure Sine Wave Inverter** is one of the most advanced DC to AC conversion products in the world. It's widely used for solar energy, wind turbine and other renewable energy systems, also suitable use in the mountains, pastoral, border, island, vehicles, ships and other areas without electricity which can provide and guarantee effective power supply. It has the main advantages of high quality sine wave AC output, microcomputer control, humanness design, high efficiency, low no-load loss and no pollution. The inverter can also supply AC power to all kinds of electric equipment, air conditioners, electric motors, refrigerators, fluorescent lights, televisions, electric fans and other industrial power supply.

## Technical Features:

Our company combine user's actual usage, specially designed this new low frequency off grid inverter, which is characterized by **stable and reliable performance, set up parameters flexibly**. It can meet different user's different requirements, the characteristics as following:

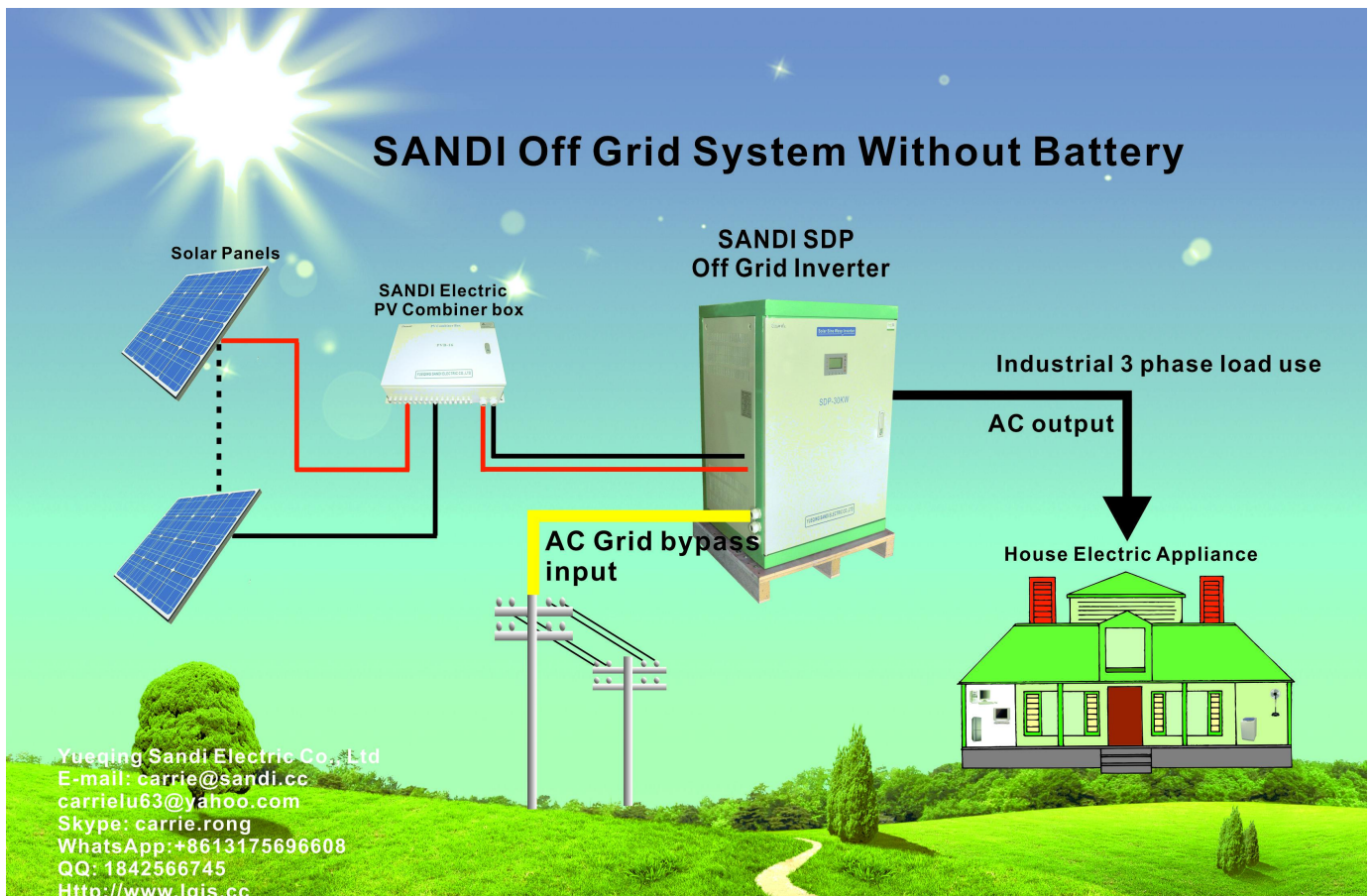
- ✧ Using the fifth generation efficient **IPM intelligent module from Japanese Mitsubishi, more stable and reliable**. It with **powerful protection** function, the protection for **short circuit, over load and over temperature** which is more safe and reliable. **It's service life can up to 15-20 years or more**.
- ✧ Intelligentized, modularized and simple structure design, **very easy and convenient for maintenance**.
- ✧ Two kinds of start mode: **Step Down Voltage Start and Variable Frequency Start**. Step Down Voltage Start is suitable for load with little inrush current (like resistive load, such as lamp). Variable Frequency Start is suitable for inductive load with big instant inrush current (such as motor), inverter's power not need enlarge too many times when take motor induction 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 frequency 50Hz/60Hz can be set** via LCD panel.
- ✧ The **output voltage can be set** between -40 % to +20 % of rated voltage. And the accuracy of output voltage is very high less than 1%.
- ✧ The **DC input voltage range can be set**. over-voltage point, under-voltage point, over-voltage recovery point, under-voltage recovery point and under voltage recovery time all can be set via the LCD panel. Convenient for increasing or reducing the quantity of batteries and solar panel in the future.
- ✧ **Wide input voltage can be set** according to customer's requirement. Input voltage range can be selected from 100-300v or 200-600v or 400-850v. This wide voltage input **off grid inverter can work without battery** and solar charge controller, which save battery cost and same like with MPPT function can maximum make full use of solar power .
- ✧ Using SVPWM space vector algorithms, **high conversion efficiency, high instantaneous power and low losses, higher efficiency > 94%**.

- ✧ Pure sine wave output. with good transient response less than 50MS, little harmonic distortion, higher conversion efficiency and stable output voltage.
- ✧ **Low frequency transformer**, which ensure the AC busbar and DC busbar are completely isolated to avoid interference, high efficiency and very little no-load loss.
- ✧ **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.
- ✧ **AC bypass input function optional:** Battery Power Priority or AC Bypass Priority work mode can be set.
- ✧ **RS485 remote monitoring function optional**
- ✧ **Solar charge controller and AC to DC battery charger built in optional** for customer
- ✧ **Can be customized** to customer's specification.
- ✧ European **CE (EMC and LVD)** certification.

### [Optional]

- ✧ **RS485 remote monitoring**
- ✧ **AC Bypass input**
- ✧ **Built in solar charge controller or AC to DC battery charger**

## Off Grid Without Battery System



## Technical Parameters

Model		SDP-3KW		SDP-4KW	
Isolation mode		Low Frequency Transformer			
DC Input	Input Voltage Range	100-300V	200-600V	400-800V	
	Rated Voltage(Vdc)	200V	400V	600V	
AC Output	Rated output power	3KW		4KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase	Single phase	3 phase
	Rated current (A)	13.6A	4.5A (phase current)	18.2A	6A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415/440VAC can be customized			
	Phases	Single / Two/ Three phase optional			
	Power Factor (PF)	0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3%(Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Running mode	Working continuously, can work 24*7			
	Electrical insulation properties	2000Vac, 1 Minute			
LCD Display		Can display DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code			
AC Bypass Function(Optional)		DC Power Priority or AC Power Priority			
Two Kinds of Start Mode		Variable Frequency Start or Step Down Voltage Start			
RS485 remote monitoring		Optional			
Protection Function	Protection	Input reverse polarity, under voltage, over voltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise ( 1 meter)	≤50dB			
	Degree of protection	IP20(indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	450x550x760mm			
	Weight (Kg)	65Kg		75Kg	
Certification		European CE(EMC & LVD), SAA			

Model		SDP-5KW		SDP-6KW	
Isolation mode		Low Frequency Transformer			
DC Input	Input Voltage Range	100-300V	200-600V	400-800V	
	Rated Voltage(Vdc)	200V	400V	600V	
AC Output	Rated output power	5KW		6KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase	Single phase	3 phase
	Rated current (A)	23A	7.6A (phase current)	27A	9A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415/440VAC can be customized			
	Phases	Single / Two/ Three phase optional			
	Power Factor (PF)	0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3%(Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Running mode	Working continuously, can work 24*7			
	Electrical insulation properties	2000Vac, 1 Minute			
LCD Display		Can display DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code			
AC Bypass Function(Optional)		DC Power Priority or AC Power Priority			
Two Kinds of Start Mode		Variable Frequency Start or Step Down Voltage Start			
RS485 remote monitoring		Optional			
Protection Function	Protection	Input reverse polarity, under voltage, over voltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise ( 1 meter)	≤50dB			
	Degree of protection	IP20(indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	450x550x760mm			
	Weight (Kg)	85Kg		95Kg	
Certification	European CE(EMC & LVD), SAA				

Model		SDP-8KW		SDP-10KW	
Isolation mode		Low Frequency Transformer			
DC Input	Input Voltage Range	100-300V	200-600V	400-800V	
	Rated Voltage(Vdc)	200V	400V	600V	
AC Output	Rated output power	8KW		10KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase	Single phase	3 phase
	Rated current (A)	36A	12A (phase current)	45.5A	15A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415/440VAC can be customized			
	Phases	Single / Two/ Three phase optional			
	Power Factor (PF)	0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3%(Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Running mode	Working continuously, can work 24*7			
	Electrical insulation properties	2000Vac, 1 Minute			
LCD Display		Can display DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code			
AC Bypass Function(Optional)		DC Power Priority or AC Power Priority			
Two Kinds of Start Mode		Variable Frequency Start or Step Down Voltage Start			
RS485 remote monitoring		Optional			
Protection Function	Protection	Input reverse polarity, under voltage, over voltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise ( 1 meter)	≤50dB			
	Degree of protection	IP20(indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
Mechanical dimension	relative humidity	0~90%, non-condensing			
	Depth* Width * Height	550x550x860mm			
Certification	Weight (Kg)	105Kg	120Kg		
	European CE(EMC & LVD), SAA				



Model		SDP-12KW		SDP-15KW	
Isolation mode		Low Frequency Transformer			
DC Input	Input Voltage Range	100-300V	200-600V	400-800V	
	Rated Voltage(Vdc)	200V	400V	600V	
AC Output	Rated output power	12KW		15KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase	Single phase	3 phase
	Rated current (A)	55A	18A (phase current)	68A	23A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415/440VAC can be customized			
	Phases	Single / Two/ Three phase optional			
	Power Factor (PF)	0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3%(Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Running mode	Working continuously, can work 24*7			
	Electrical insulation properties	2000Vac, 1 Minute			
LCD Display		Can display DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code			
AC Bypass Function(Optional)		DC Power Priority or AC Power Priority			
Two Kinds of Start Mode		Variable Frequency Start or Step Down Voltage Start			
RS485 remote monitoring		Optional			
Protection Function	Protection	Input reverse polarity, under voltage, over voltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise ( 1 meter)	≤50dB			
	Degree of protection	IP20(indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	550x550x860mm			
	Weight (Kg)	130Kg		140Kg	
Certification		European CE(EMC & LVD)			

Model		SDP-20KW		SDP-25KW	
Isolation mode		Low Frequency Transformer			
DC Input	Input Voltage Range	100-300V	200-600V	400-800V	
	Rated Voltage(Vdc)	200V	400V	600V	
AC Output	Rated output power	20KW		25KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase	Single phase	3 phase
	Rated current (A)	91A	31A (phase current)	114A	38A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415/440VAC can be customized			
	Phases	Single / Two/ Three phase optional			
	Power Factor (PF)	0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3%(Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Running mode	Working continuously, can work 24*7			
	Electrical insulation properties	2000Vac, 1 Minute			
LCD Display		Can display DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code			
AC Bypass Function(Optional)		DC Power Priority or AC Power Priority			
Two Kinds of Start Mode		Variable Frequency Start or Step Down Voltage Start			
RS485 remote monitoring		Optional			
Protection Function	Protection	Input reverse polarity, under voltage, over voltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise ( 1 meter)	≤50dB			
	Degree of protection	IP20(indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	550x750x1000mm			
	Weight (Kg)	180Kg		220Kg	
Certification		European CE(EMC & LVD)			

Model		SDP-30KW		SDP-40KW	
Isolation mode		Low Frequency Transformer			
DC Input	Input Voltage Range	200-600V or 400-800V			
	Rated Voltage(Vdc)	400V or 600V			
AC Output	Rated output power	30KW		40KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase	Single phase	3 phase
	Rated current (A)	136A	45.5A (phase current)	182A	61A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	110/120/220/230/240/380/400/415/440VAC can be customized			
	Phases	Single / Two/ Three phase optional			
	Power Factor (PF)	0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3%(Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Running mode	Working continuously, can work 24*7			
	Electrical insulation properties	2000Vac, 1 Minute			
LCD Display		Can display DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code			
AC Bypass Function(Optional)		DC Power Priority or AC Power Priority			
Two Kinds of Start Mode		Variable Frequency Start or Step Down Voltage Start			
RS485 remote monitoring		Optional			
Protection Function	Protection	Input reverse polarity, under voltage, over voltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise ( 1 meter)	≤50dB			
	Degree of protection	IP20(indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
Mechanical dimension	relative humidity	0~90%, non-condensing			
	Depth* Width * Height	650x750x1100mm			
Mechanical dimension	Weight (Kg)	260Kg		300Kg	
	Certification	European CE(EMC & LVD)			

Model		SDP-50KW		SDP-60KW	
Isolation mode		Low Frequency Transformer			
DC Input	Input Voltage Range	200-600V or 400-800V			
	Rated Voltage(Vdc)	400V or 600V			
AC Output	Rated output power	50KW		60KW	
	Output waveform	Pure Sine Wave			
	Rated Voltage	220V±3%	380VAC±3%	220V±3%	380VAC±3%
	Phases	Single phase	3 phase	Single phase	3 phase
	Rated current (A)	227A	75.7A (phase current)	272.7A	90.9A (phase current)
	Frequency	50Hz or 60Hz			
	Rated output voltage range (V)	220/230/240/380/400/415/440VAC can be customized			
	Phases	Single / Two/ Three phase optional			
	Power Factor (PF)	0.95			
	Overload Ability	150%, 5 seconds			
	Efficiency	>94%			
	Waveform distortion rate (THD)	<3%(Linear load)			
	Dynamic Response (0 to 100% load)	5%, ≤50ms			
	Running mode	Working continuously, can work 24*7			
	Electrical insulation properties	2000Vac, 1 Minute			
LCD Display		Can display DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code			
AC Bypass Function(Optional)		DC Power Priority or AC Power Priority			
Two Kinds of Start Mode		Variable Frequency Start or Step Down Voltage Start			
RS485 remote monitoring		Optional			
Protection Function	Protection	Input reverse polarity, under voltage, over voltage, output over-current, short circuit, overheating etc.			
	Cooling method	Fan-cooled			
	Short-circuit protection	No automatic recovery, need to restart the machine			
Working environment	Noise ( 1 meter)	≤50dB			
	Degree of protection	IP20(indoor)			
	Working Altitude (m)	≤2000			
	Working temperature	-25~+55℃			
	relative humidity	0~90%, non-condensing			
Mechanical dimension	Depth* Width * Height	710x750x1300mm			
	Weight (Kg)	400Kg		420Kg	
Certification		European CE(EMC & LVD)			

Model		SDP-80KW	SDP-100KW
Isolation mode		Low Frequency Transformer	
DC Input	Input Voltage Range	200-600V or 400-800V	
	Rated Voltage(Vdc)	400V or 600V	
AC Output	Rated output power	80KW	100KW
	Output waveform	Pure Sine Wave	
	Rated Voltage	380VAC±3%	380VAC±3%
	Phases	3 phase	3 phase
	Rated current (A)	121A (phase current)	152A (phase current)
	Frequency	50Hz or 60Hz	
	Rated output voltage range (V)	380/400/415/440VAC can be customized	
	Phases	Single / Two/ Three phase optional	
	Power Factor (PF)	0.95	
	Overload Ability	150%, 5 seconds	
	Efficiency	>94%	
	Waveform distortion rate (THD)	<3%(Linear load)	
	Dynamic Response (0 to 100% load)	5%, ≤50ms	
	Running mode	Working continuously, can work 24*7	
	Electrical insulation properties	2000Vac, 1 Minute	
LCD Display		Can display DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code	
AC Bypass Function(Optional)		DC Power Priority or AC Power Priority	
Two Kinds of Start Mode		Variable Frequency Start or Step Down Voltage Start	
RS485 remote monitoring		Optional	
Protection Function	Protection	Input reverse polarity, under voltage, over voltage, output over-current, short circuit, overheating etc.	
	Cooling method	Fan-cooled	
	Short-circuit protection	No automatic recovery, need to restart the machine	
Working environment	Noise ( 1 meter)	≤50dB	
	Degree of protection	IP20(indoor)	
	Working Altitude (m)	≤2000	
	Working temperature	-25~+55℃	
	relative humidity	0~90%, non-condensing	
Mechanical dimension	Depth* Width * Height	710x750x1300mm	
	Weight (Kg)	550Kg	650Kg
Certification		European CE(EMC & LVD)	

Model		SDP-150KW	SDP-200KW
Isolation mode		Low Frequency Transformer	
DC Input	Input Voltage Range	200-600V or 400-800V	
	Rated Voltage(Vdc)	400V or 600V	
AC Output	Rated output power	150KW	200KW
	Output waveform	Pure Sine Wave	
	Rated Voltage	380VAC±3%	380VAC±3%
	Phases	3 phase	3 phase
	Rated current (A)	227A (phase current)	303A (phase current)
	Frequency	50Hz or 60Hz	
	Rated output voltage range (V)	380/400/415/440VAC can be customized	
	Phases	Two/ Three phase optional	
	Power Factor (PF)	0.95	
	Overload Ability	150%, 5 seconds	
	Efficiency	>94%	
	Waveform distortion rate (THD)	<3%(Linear load)	
	Dynamic Response (0 to 100% load)	5%, ≤50ms	
	Running mode	Working continuously, can work 24*7	
Electrical insulation properties	2000Vac, 1 Minute		
LCD Display		Can display DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code	
AC Bypass Function(Optional)		DC Power Priority or AC Power Priority	
Two Kinds of Start Mode		Variable Frequency Start or Step Down Voltage Start	
RS485 remote monitoring		Optional	
Protection Function	Protection	Input reverse polarity, under voltage, over voltage, output over-current, short circuit, overheating etc.	
	Cooling method	Fan-cooled	
	Short-circuit protection	No automatic recovery, need to restart the machine	
Working environment	Noise ( 1 meter)	≤50dB	
	Degree of protection	IP20(indoor)	
	Working Altitude (m)	≤2000	
	Working temperature	-25~+55℃	
Mechanical dimension	relative humidity	0~90%, non-condensing	
	Depth* Width * Height	1200x1200x1860mm	
Mechanical dimension	Weight (Kg)	1000Kg	1100Kg
	Certification	European CE(EMC & LVD)	



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