

# 3KW-500KW Low Frequency Off-Grid Inverter



## Off Grid Solar Inverter

# **Product Introduction**

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GIS- SDP series Pure Sine Wave 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 battery 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, air conditioners, electric motors, refrigerators, fluorescent lights, televisions, electric fans and other industrial power supply.

## **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.
- ✧ Intelligentized, modularized, simple structure design easy to maintenance.
- ✧ 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 frequency 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  $\pm 1\%$ .
- ✧ The DC input voltage range can be set. Over-voltage point, under-voltage point, over-voltage recovery point, under-voltage recovery point all can be setting via the LCD panel.
- ✧ 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.

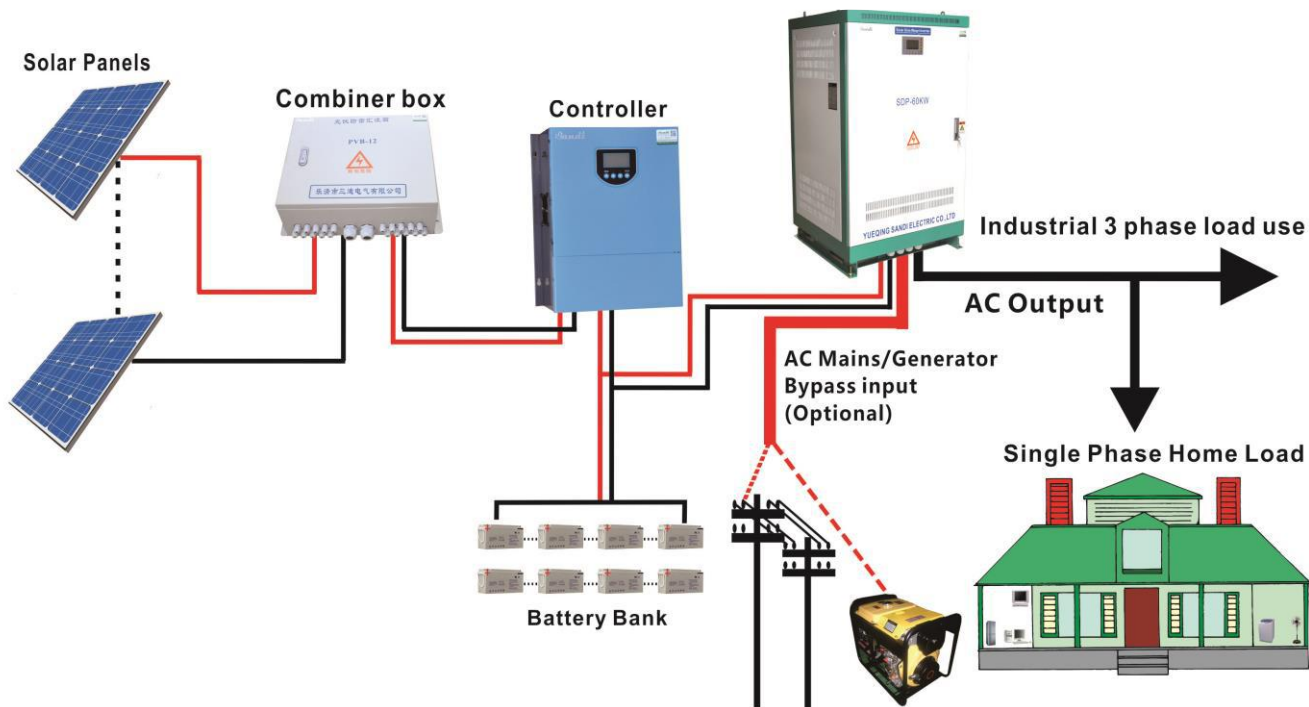
- ✧ Wide input voltage can be set according to customer's requirement. Input voltage range can be selected from 100-300V, 200-500V or 500-850V, suitable for solar/wind system without backup batteries, it can save many cost and maximization use the solar/wind energy.
- ✧ Using SVPWM space vector algorithms, high conversion efficiency, high instantaneous power and low losses conversion efficiency up to 94%.
- ✧ Powerful data display 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.
- ✧ European CE (EMC, LVD) certificate, accredited by Australian CEC, ERAC energy network.

**[Optional]**

- ✧ **RS485 remote monitoring;**
- ✧ **Can add AC bypass input complementary function;**

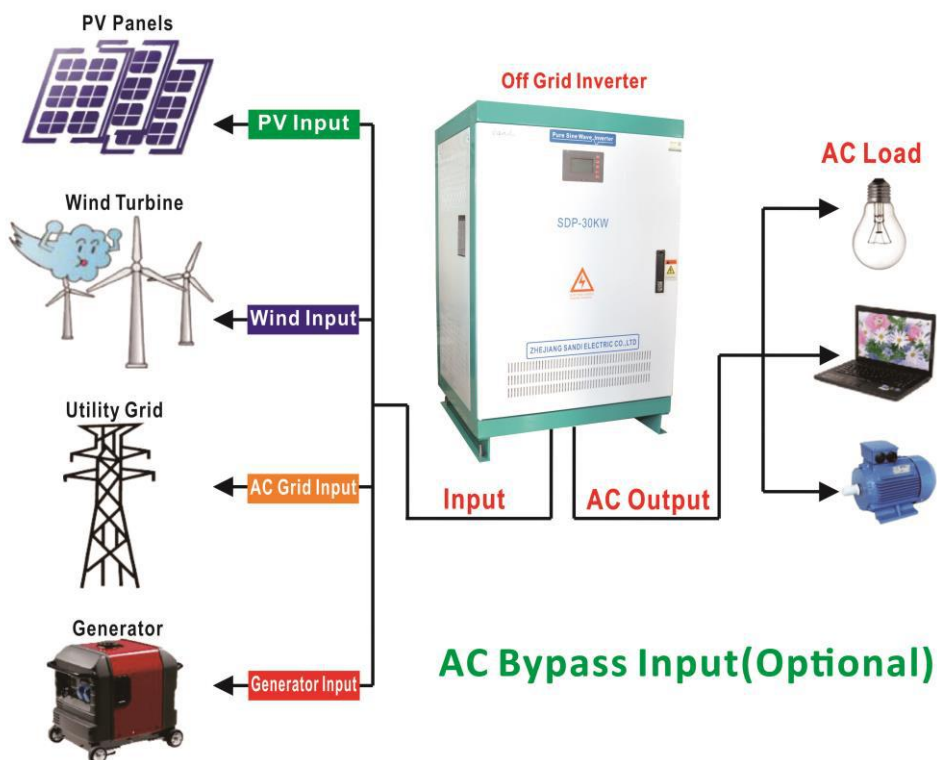
GIS Low Frequency Off Grid Inverter Advantages
<b>Easy to repair</b>
*Adopted <b>Japanese Mitsubishi IPM intelligent module</b> , Modular and simple structure design, very easy and <b>convenient for maintenance</b> , any fault only need us send you parts for replacement, maintenance is low-skill work
<b>Little fault rate</b>
It with <b>powerful protection function</b> for short circuit, over load and over temperature which is more safe and reliable. <b>Fault rate &lt; 1%</b>
<b>100% full power stable output</b>
Inside with full power low frequency isolated transformer, <b>100% full power output</b> , can work 24h*7, which ensure the AC busbar and DC busbar are completely isolated, the harmonic and interference is very little, constant voltage and constant frequency stable output.
<b>High efficiency</b>
> 94%
<b>Long service life</b>
> 15 years
<b>AC bypass input can be set</b>
AC power priority or battery power priority can be set
<b>Setting flexible</b>
<b>Wide DC input voltage range can be set:</b> The DC input voltage range(over-voltage point, under-voltage point, over-voltage recovery point, under-voltage recovery point and under voltage recovery time) can be set, convenient for adding more solar panel or battery in the future.
<b>The output frequency 50Hz/60Hz can be set:</b> Variable Frequency Start control motor speed.
<b>The output voltage can be set.:</b> the accuracy of output voltage is very high less than 1%.
<b>Two kinds of work mode</b>
<b>Variable Frequency Start or Step Down Voltage Start</b>
with higher capacity to drive motor inductive load, normal inverter's power need enlarge 3-7 times at least, however our inverter with VFD function, inverter's power not need enlarge times, for example: 5KW inverter can take 3kw-5kw pump
<b>Big LCD display</b>
* <b>LCD display</b> the DC input voltage, output frequency, phase voltage, phase current, AC bypass input voltage, output power KWH, time and date, temperature, fault code display.
<b>2 years warranty(whole life technology support)</b>

# PV Off-grid Solar Power System



# No Battery Off-grid System

## No Battery Off Grid System



# Technical Parameter

Model	SDP-3KW		SDP-4KW	
Isolation mode	Low Frequency Transformer			
<b>DC Input</b>				
Rated voltage (Vdc)	48Vdc	96Vdc	48Vdc	96Vdc
Rated current (A)	62.5A	31A	83A	42A
Input voltage range (Vdc)	43~80V	86~150V	43~80V	86~150V
<b>AC Output</b>				
Rated power (Kw)	3KW		4KW	
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)	13.6A	4.5A	18A	6A
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≤2%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>94%			
Electrical insulation properties	2000Vac、1 Minute			
<b>Protection Function</b>				
Overload Ability	150%、10s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 (A、B)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
<b>Working Environment &amp; Mechanical dimension</b>				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤2500m			
Working temperature (°C)	-15~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤50dB			
Unit size: (W x D x H)	550×450×750mm			
Reference weight (Kg)	60Kg		65Kg	
Our company can adjust parameter configuration according to user's requirement.				

# Technical Parameter

Model	SDP-5KW		SDP-6KW	
Isolation mode	Low Frequency Transformer			
<b>DC Input</b>				
Rated voltage (Vdc)	96Vdc	120Vdc	96Vdc	120Vdc
Rated current (A)	52A	42A	62.5A	50A
Input voltage range (Vdc)	86~140V	108~175V	86~140V	108~175V
<b>AC Output</b>				
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≤2%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
<b>Protection Function</b>				
Overload Ability	150%、10s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 (A、B)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
<b>Working Environment &amp; Mechanical dimension</b>				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤2500m			
Working temperature (°C)	-15~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤50dB			
Unit size: (W x D x H)	550×450×750mm			
Reference weight (Kg)	80Kg		90Kg	
Our company can adjust parameter configuration according to user's requirement.				

# Technical Parameter

Model	SDP-8KW		SDP-10KW	
Isolation mode	Low Frequency Transformer			
<b>DC Input</b>				
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
<b>AC Output</b>				
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≤2%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
<b>Protection Function</b>				
Overload Ability	150%、10s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 (A、B)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
<b>Working Environment &amp; Mechanical dimension</b>				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤2500m			
Working temperature (°C)	-15~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤50dB			
Unit size: (W x D x H)	550x550x875mm			
Reference weight (Kg)	110Kg		120Kg	
Our company can adjust parameter configuration according to user's requirement.				

# Technical Parameter

Model	SDP-15KW		SDP-20KW	
Isolation mode	Low Frequency Transformer			
<b>DC Input</b>				
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
<b>AC Output</b>				
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≤2%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
<b>Protection Function</b>				
Overload Ability	150%、10s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 (A、B)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
<b>Working Environment &amp; Mechanical dimension</b>				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤2500m			
Working temperature (°C)	-15~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤50dB			
Unit size: (W x D x H)	550x550x875mm			
Reference weight (Kg)	145Kg		180Kg	
Our company can adjust parameter configuration according to user's requirement.				



# Technical Parameter

Model	SDP-25KW		SDP-30KW	
Isolation mode	Low Frequency Transformer			
<b>DC Input</b>				
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
<b>AC Output</b>				
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≤2%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
<b>Protection Function</b>				
Overload Ability	150%、10s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 (A、B)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
<b>Working Environment &amp; Mechanical dimension</b>				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤2500m			
Working temperature (°C)	-15~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤50dB			
Unit size: (W x D x H)	600×700×1150mm			
Reference weight (Kg)	220Kg		270Kg	
Our company can adjust parameter configuration according to user's requirement.				

# Technical Parameter

Model	SDP-40KW		SDP-50KW	
Isolation mode	Low Frequency Transformer			
<b>DC Input</b>				
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
<b>AC Output</b>				
Rated power (Kw)	40KW		50KW	
Rated voltage	220V±3%	380V±3%	380V±3%	
Number of phases	1 phase 2 wire	3 phase 4 wire	3 phase 4 wire	
Rated current (A)	182A	60A	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≤2%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
<b>Protection Function</b>				
Overload Ability	150%、10s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 (A、B)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
<b>Working Environment &amp; Mechanical dimension</b>				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤2500m			
Working temperature (°C)	-15~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤50dB			
Unit size: (W x D x H)	650×750×1200mm			
Reference weight (Kg)	315Kg		360Kg	
Our company can adjust parameter configuration according to user's requirement.				

# Technical Parameter

Model	SDP-60KW		SDP-80KW	
Isolation mode	Low Frequency Transformer			
<b>DC Input</b>				
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
<b>AC Output</b>				
Rated power (Kw)	60KW		80KW	
Rated voltage	380V±3%		380V±3%	
Number of phases	3 phase 4 wire		3 phase 4 wire	
Rated current (A)	91A		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≤2%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
<b>Protection Function</b>				
Overload Ability	150%、10s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 (A、B)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
<b>Working Environment &amp; Mechanical dimension</b>				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤2500m			
Working temperature (°C)	-15~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤50dB			
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			
<b>DC Input</b>				
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
<b>AC Output</b>				
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≤2%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
<b>Protection Function</b>				
Overload Ability	150%、10s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 (A、B)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
<b>Working Environment &amp; Mechanical dimension</b>				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤2500m			
Working temperature (°C)	-15~+50°C			
Relative humidity (°C)	0~90%, No condensation			
Noise (1 meter)	≤50dB			
Unit size: (W x D x H)	750×750×1485mm		1000×1150×1860mm	
Reference weight (Kg)	550Kg		1050Kg	
Our company can adjust parameter configuration according to user's requirement.				

# Technical Parameter

Model	SDP-200KW		SDP-250KW	
Isolation mode	Low Frequency Transformer			
<b>DC Input</b>				
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
<b>AC Output</b>				
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≤2%			
Dynamic Response time (Load 0←→100%)	5%, ≤50ms			
Power Factor (PF)	0.99			
Inverter Efficiency	>93%			
Electrical insulation properties	2000Vac、1 Minute			
<b>Protection Function</b>				
Overload Ability	150%、10s			
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.			
Display	LCD			
Communication interface (optional)	RS485 (A、B)			
Method of working	Working continuously			
Cooling method	Fan-cooled			
Short-circuit protection	No automatic recovery, need to restart the machine			
<b>Working Environment &amp; Mechanical dimension</b>				
Degree of protection	IP20 (indoor)			
Working Altitude (m)	≤2500m			
Working temperature (°C)	-15~+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	
<b>DC Input</b>		
Rated voltage (Vdc)	600V	
Rated current (A)	500A	667A
Input voltage range (Vdc)	540~850V	540~850V
<b>AC Output</b>		
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≤2%	
Dynamic Response time (Load 0←→100%)	5%, ≤50ms	
Power Factor (PF)	0.99	
Inverter Efficiency	>93%	
Electrical insulation properties	2000Vac、1 Minute	
<b>Protection Function</b>		
Overload Ability	150%、10s	
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.	
Display	LCD	
Communication interface (optional)	RS485 (A、B)	
Method of working	Working continuously	
Cooling method	Fan-cooled	
Short-circuit protection	No automatic recovery, need to restart the machine	
<b>Working Environment &amp; Mechanical dimension</b>		
Degree of protection	IP20 (indoor)	
Working Altitude (m)	≤2500m	
Working temperature (°C)	-15~+50°C	
Relative humidity (°C)	0~90%, No condensation	
Noise (1 meter)	≤60dB	
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

<b>Model</b>	SDP-500KW
<b>Isolation mode</b>	Low Frequency Transformer
<b>DC Input</b>	
Rated voltage (Vdc)	600V
Rated current (A)	833A
Input voltage range (Vdc)	540~850V
<b>AC Output</b>	
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≤2%
Dynamic Response time (Load 0←→100%)	5%, ≤50ms
Power Factor (PF)	0.99
Inverter Efficiency	>93%
Electrical insulation properties	2000Vac、1 Minute
<b>Protection Function</b>	
Overload Ability	150%、10s
Protection	Input reverse polarity, under voltage, overvoltage, output over-current, short circuit, overheating etc.
Display	LCD
Communication interface (optional)	RS485 (A、B)
Method of working	Working continuously
Cooling method	Fan-cooled
Short-circuit protection	No automatic recovery, need to restart the machine
<b>Working Environment &amp; Mechanical dimension</b>	
Degree of protection	IP20 (indoor)
Working Altitude (m)	≤2500m
Working temperature (°C)	-15~+50°C
Relative humidity (°C)	0~90%, No condensation
Noise (1 meter)	≤60dB
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.	