

SDP Series

Application industry

- ✓ Oil & natural gas (onshore, offshore platforms, pipelines, refining, floating production and storage)
- ✓ Petrochemical (onshore, offshore platforms, pipelines, refining, floating production and storage)
- ✓ Nuclear power generation, photothermal power generation, hydrogen energy and other new energy sources.
- ✓ New materials, semiconductors and other strategic emerging industries
- ✓ Coal chemical industry
- ✓ Other industrial applications



High-reliability industrial-grade uninterruptible power supply UPS

Designed for the worst application environment.

- 1. Designed to protect important industrial processes.
- 2. Robust shell (2mm thick heavy steel structure)
- 3. Eight degree seismic design, can resist 9 magnitude earthquake
- 4. Ultra-high altitude 4500 meters design, no derating.
- 5. Standard IP31 protection level, Optional easy-to-replace dust-proof filter and dust-proof and splash-proof housing (Ip52)
- 6. Operate safely under ambient temperature of $-30^{\circ}\text{C}\sim+50^{\circ}\text{C}$
- 7. Wide input voltage range, allowable tolerance of -40% to 30% .
- 8. All metal shielding of control board and control line, higher EMI performance
- 9. Sealed control unit, no cooling air duct, highly dustproof
- 10. Compared with the UPS international standard IEC62040-2, it provides EMC immunity;
- 11. Use low temperature resistant flame retardant power cable
- 12. Double redundant over-voltage protection system.

Especially suitable for industrial loads

- 1. 100% nonlinear load can be allowed.
- 2. 100% unbalanced load is allowed.
- 3. 100% power frequency rectification load (motor driver, welding equipment, switching power supply, etc.) are allowed.
- 4. Large currents such as motors, lamps and capacitors can be allowed to impact the load.

Standard electrical characteristics of industrial UPS

- 1. Dual-channel three-phase AC input with different sources.
- 2. Three-phase input, single-phase output
- 3. Built-in input and output isolation transformer.
- 4. Standard configuration bypass isolation transformer and voltage regulating transformer.
- 5. Internal maintenance bypass.
- 6. The rectifier can withstand the impact of the grid voltage up to 6 times or more, (usually SCR rectifier is used); more than 10 times the load current impact.
- 7. The inverter can withstand the current surge current of the load more than 6 times
- 8. The bypass system withstands the impact current of the load more than 10 times
- 9. Ultra-long design life, up to 400,000 hours

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KVA		SDP10-160	SDP250-600	SDP800-1200	SDP1500-2500
UPS type		Dual isolation and dual transformation on-line type			
Efficiency		>95%			
UPS ambient temperature		-30~+50°C(The temperature range is customized according to the environment of individual countries.)			
UPS storage temperature		-30~+70°C			
Relative humidity		<95%(Non-condensation)			
Altitude		<4500m			
Power decreases when the height > 4500.		7%/km			
Ventilation mode		1+1Redundant fan, forced air cooling, up and down air supply			
Noise		<60dBA	<80dBA	<60dBA	<80dBA
Input and output cable connection		Bottom or top (optional)			
Communication interface		RS232(1 pc)/RS485(4 pcs)/Dry contact(Group 1, 15 pairs), (SNMP optional)			
Standard	CE, EN50091-1,2	Match			
	FCC CLASS A	Match			
	Short circuit protection	Rectifier output/standby power output/bypass switch output			
Protection circuit	Lightning protection	MOV			
	EMC protection	Input & Output			
	Isolation	Four terminal isolation: mains power supply, standby power supply, DC power supply and UPS output power supply isolation.			

Rectifier

Bridge rectifier	Three-phase 6-pulse controllable rectification ~ three-phase 48-pulse controllable rectification			
Rated input voltage(VAC)	3*190V/200V/208V/220V/230V/380V/400V/440V/460V/480V/500V/525V/600V/660V/690V			
Input voltage range	-40%+35%			
Input frequency	50/60Hz±10%			
Input power factor	>0.9-0.98		>0.98	
DC output voltage, accuracy	110VDC/216VDC/360VDC/384VDC/400VDC/480VDC, ±1%		400VDC/480VDC/760VDC, ±1%	
Efficiency	99%			

Inverter

Bridge inverter	IGBT redundancy configuration DSP-controlled inverter, non-IGBT direct parallel connection and modular design			
DC input range	110VDC/216VDC/360VDC/384VDC/400VDC/480VDC+25%		400VDC/480VDC/760VDC+25%	
Rated output voltage	Single phase: 110V/115V/120V/127V/130V/220V/230V/240V/254V/265V/ 277V/288V/300V/345V/380V/400V Three-phase (line voltage): 190V/200V/208V/220V/230V/380V/400V/415V/440V/460V/ 480V/500V/525V/600V/660V/690V		Three-phase (line voltage): 190V/200V/208V/220V/230V/380V/400V/415V/440V/460V/480V/500V/525V/600V/660V/690V	
Output phase number	One-phase and three-phase		three-phase	
Output power factor	Leading by 0.4 ~ lagging by 0.9			
Output frequency	50/60Hz±0.1%			
Output voltage stability	Static	±1%		
	Dynamic(0~100%~0)	±3%		
Output voltage recovery time	After the step load, it recovered to 2% within 1 millisecond.			
Overload capacity	125%为10min,150%为1min			
Short circuit characteristic	Short circuit protection, current limited to 3 times the rated current, 100ms.			
Output waveform	sine wave			
Output waveform distortion	Linear load	<2%		
	Nonlinear load (peak factor 3:1)	<5%		
Peak factor	3:1 (The peak factor > 3: 1 can be customized.)			
Efficiency	>95%			
DC cold start	OK			

Bypass

Auto static switch	Thyristor SCR, (optional redundancy design)			
Rated voltage	220V/230V/240V/380V/400V/415V±20% (Settable)		380V/400V/415V±20% (Settable)	
Rated frequency	50/60Hz±5% (Settable)			
Static bypass switching time	0ms			
Inverter to static bypass	Test inverter, inverter fault, inverter input voltage is excessive, inverter output voltage is excessive.			
Overload capacity	1.5	30min		
	10	1min		

Mechanical parameters

IP grade	IP20,IP21,IP30,IP32,IP40,IP42 Optional, others can be customized.			
D	800	1000	1000	
H ₁	1800IP20、IP30、IP40			
H ₂	2000IP21、IP32、IP42			