



HYBRID RACK MOUNTED SOLAR INVERTER

SID SERIES



FEATURES

- ▶ 3U rack structure design for easy installation
- ▶ Pure sine wave output, can meet various types of requirements.
- ▶ Built-in MPPT solar controller
- ▶ The priority level of photovoltaic, utility power and battery is selectable.
- ▶ It has a wide range of selectable mains input voltage.
- ▶ In built protection for over-discharge, overload, over-temperature, short-circuit protection etc.
- ▶ Cold Start Function supported.
- ▶ Supports RS485/CAN/SNMP/Wifi/Bluetooth monitoring function. Compatible with different brands of ESS.

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Technical Parameter

MODEL	SID24-3E	SID48-3E	SID48-5E
Rated Capacity	3000VA/3000W		5000VA/5000W
INPUT			
Input Format	L+N+PE		
Rated input voltage	208/220/230/240VAC		
Voltage Range	170~280VAC(For Personal computers); 90~280VAC(For Home Appliances)		
Frequency Range	50Hz/60Hz(Auto sensing)		
OUTPUT			
Output Format	L+N+PE		
Rated output voltage	208/220/230/240VAC±5%		
Output frequency	50/60Hz±0.1%		
Waveform	Pure sine wave		
Transfer Time	10ms(For Personal computers) , 10ms(For Home Appliances)		
Peak Power	6000VA	6000VA	10000VA
Overload Capacity	Battery Mode: 1min@102%~110% Load 10s@110%~130%Load 3s@130%~150% Load 200ms@>150% Load		
Peak Efficiency (Battery Mode)	>93%	>94%	>94%
BATTERY			
Rated voltage	24 VDC	48 VDC	
Constant voltage charging voltage (can be set)	28.2 VDC	56.4 VDC	
Float charging voltage (can be set)	27 VDC	54 VDC	
SOLAR CHARGER & AC CHARGER			
Solar Charger type	MPPT	MPPT	MPPT
PV maximum input power	4000W	4000W	5500W
MPPT tracking range	120~430 VDC	120~430 VDC	120~430 VDC
Maximum PV input voltage	450 VDC	450 VDC	450 VDC
Maximum PV Charge Current	80 A	80 A	80 A
Maximum mains charging current	60 A	60 A	80 A
Maximum charging current	80 A	80 A	80 A
Communication Interface			
Communication Interface	RS232	RS232	RS232
Expansion communication interface	RS485; CAN, SNMP, WiFi		
Parallel interface	No parallel	No parallel	With parallel
Environmental Parameters			
Operating ambient temperature	0~40℃		
Operating environment humidity	20%~95% (Non-condensing)		
Storage temperature	-15~60℃		
Altitude	Altitude should not exceed 1000m, derating above 1000m, maximum 4000m, refer to IEC62040		
Noise	≤50db		
Physical parameters			
D×W×H(mm)	405×483×133.5	405×483×133.5	405×483×133.5
Weight (net weight)	7kg	7kg	7.8kg
Standards and Certifications	EN-IEC 62100, EN-IEC 60335-2-29, IEC 62109-1		