

ALL IN ONE ENERGY

sanTech
Sangin Technology Services

OFF-GRID SOLAR ENERGY STORAGE SYSTEM

Inverter Power:
3.5KW-10KW



- Single Phase
- Reliable Residential Solar Energy System
- Flexible Battery Expandable
- Can be used as UPS
- Lithium Battery CATL Cells 8000 Cycles

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راه های ارتباطی

ALL IN ONE ENERGY

OFF-GRID ENERGY STORAGE SYSTEM

Technical Specifications (Battery)

MODEL	Bat 5.12 VS			
Nominal DC Voltage	51.2V			
Battery Capacity	100Ah	200Ah(100Ah*2)	300Ah(100Ah*3)	400Ah(100Ah*4)
Energy(kWh)	5.12KWh	10.24KWh	15.36KWh	20.48KWh
Cycle Life	8000 cycle(90%DOD)			
Certification	UN38.3,MSDS,CE-EMC			

Technical Specifications (Inverter)

MODEL	Inv 3.5 VS	Inv 6.2 VS	Inv 8 VS	Inv 10 VS
Recommend max. PV input power	5500W	6500W	5000W*2	5500W*2
Max. PV Input Voltage	500Vdc			550Vdc
PV Array MPPT Voltage Range	60Vdc~450Vdc		60Vdc~500Vdc	
Max. Input Current	27A	29A	18A	18A
No. of PV strings per MPPT	1		2	2
Parallel	No parallel			
Max. Charging Current(PV+AC)	100A	120A	140A	160A

OUTPUT POWER

Full Load	3500W	6200W	8500W	11000W
Surge Power	8400W	12400W	17000W	22000W

AC OUTPUT

Rate Voltage	220/230VAC±5%
Frequency	50/60Hz
Waveform	Pure Sine Wave
Overload Protection	5s@≥140% Loading, 10s@100%~140% Loading.
Maximum Conversion Efficiency	94%

AC INPUT

Rate Voltage	230VAC
Voltage Range	170-280VAC, 90-280VAC
Frequency	50/60Hz

BATTERY

Voltage	51.2V / 48V
Battery type	Lithium/ Gel Battery

General Specifications

Operating Temperature Range	-20°C ~ 55°C
Storage Temperature	-20°C ~ 60°C
Humidity	5% to 95% Relative Humidity(Non-condensing)
Communication Port	RS485(RJ45)/RS232(DB9)

SERVER RACK BATTERY

MADE OF

LIFEP04

IMPROVES
SAFETY

5.12 kwh
10.24 kwh
14.3 kwh



Faster charging



Flexible Investment



Easier Installation



Higher Level Safety



Longer Life Time



Wider Compatibility



High Voltage:

Bat HV 5.12 RM

Bat HV14.3 RM

Low Voltage:

Bat 5.12 RM

Bat 10.24 RM

CATL Cells ●

8000 Cycles ●

10 Year Warranty ●

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SERVER RACK BATTERY

HIGH-PERFORMANCE SERVER RACK BATTERY

MODEL	Bat 5.12 RM	Bat 10.24 RM
Rated energy	48V/51.2V 100AH 5.12kWh	48V/51.2V 200AH 10.24kWh
Charge voltage	58.4V(max60V)	
RecomendedCharge& Discharge C Rate	0.5C	
Max Discharge C Rate	1C	
Charge curenecy	≤100A	≤200A
Max Charge/DischargeCurrent	100A	200A
Work temperature	-20°C-55°C	
Recommended Depth ofDischarge(DOD)	90%DOD	
Scalability	Max.16pcs	
Display	SOC &ALM &RUN status indicator,LCD screen	
Protection	Over charge/discharge,over curenecy,over/undertemperature,short circuit,Battery balancing protection, etc.	
Certificate	UN38.3,MSDS,CE-EMC,UL1973,CE-021,IEC62619 ect.	

System Model	HV20K	HV25K	HV30K	HV35K	HV40K	HV46K	HV51K	HV56K	HV61K
Module Number	Bat HV 5.12 RM								
Module Energy	5.12V 100Ah 5.12kWh								
Module in Series	From 4 to 12 Units								
SystemNominalvoltage(V)	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
SystemOperatingvoltage(V)	172.8~224	215~280	259.2~336	302.4~392	345.6~448	388.8~504	432~560	492.8~616	537.6~672
System Energy(kWh)	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.3	61.4
Charge/ Discharge Current(A)	Rccommend	50							
	Max	100							
Working Temperature	Charge:0°C~50°C/DisCharge:-20°C~55°C								
RecommendDepthof Discharge	90%								
Cycle Life	25±2°C, 0.5C/0.5C, EOL70%≥8000								
Altitude(m)	≤2000								
Humidity	5-85%								

System Model	HV71K	HV89K	HV107K	HV125K	HV143K	HV161K	HV179K	HV197K	HV215K
Module Number	Bat HV 14.3 RM								
Module Energy	5.12V 280Ah 14.3kWh								
Module in Series	From 4 to 15 Units								
Nominal voltage	256V	320V	384V	448V	512V	576V	640V	704V	768V
Rated Energy(KWH)	71.68KWH	89.6KWH	107.52KWH	125.44KWH	143.36KWH	161.28KWH	179.2KWH	197.12KWH	215.04KWH
Voltage Range(Vdc)	233V~283V	94V~350V	50V-425V	410V-495V	470V-560V	520V-640V	580V-710V	640V-770V	695V-840V
Max.Charge/ DischargeCurrent(A)	140A/140A								
Communication	RS485(B)-BAT RS485(A)-PC,Canbus-Inverter								
Cycle Life	≥8000cycles@25°C,90%DOD,60%EOL								
OperatingTemperature(°C)	Charge:-10°C~50°C;Discharge:-20°C-50°C								
Altitude(m)	≤2000								
Humidity	≤95%(Non-condensing)								
Certification	UN38.3/MSDS/CE/IEC62619								