

SV-4K-S
SV-6K-S

Features

- Supports grid/generator input
Dual AC outputs, separate grid and generator inputs
- Remote Monitoring
Built-in WiFi module, supported by VEICHI.com AI service
- Parallel connection
Up to 9 devices can be connected in parallel
- Ultra-fast on/off grid switchover
UPS-level switchover time: 10 ms
- High power battery charging and discharging
Maximum 120A charging current
Maximum discharge current 137A

SV-4K-24-S
SV-6K-S
Off Grid Inverter



Specification

Model	SV-4K-S	SV-6K-S
Input (PV DC)		
Max. PV array power(Wp)	4400	7800
Maximum input power per MPPT	4400	7800
Number of MPPTs	1	1
Number of MPPT input strings	1	1
Rated PV input voltage(V)	500	550
PV input voltage range(V)	60V-450V	90V-500V
MPPT voltage range(V)	60V-450V	90V-500V
Start-up voltage(V)	90V	120V
Max. PV input current per MPPT(A)	18	27
Max. PV short-circuit current input per MPPT(A)	23A	33A
Battery		
Compatible battery type	Lead-acid & Lithium-ion	Lead-acid & Lithium-ion
Communication protocol type	RS485/CAN	RS485/CAN
Rated battery voltage(V)	24	48
Battery voltage range(V)	20-30V	42-60V
Max. charge(A)	120A	120A
discharge current(A)	137A	137A
Active Battery	yes	yes
Grid		
Rated AC voltage(V)	230VAC	230VAC
AC Voltage range	90~280Vac	90~280Vac
Rated AC frequency(Hz)	50/60	50/60
Rated AC output current(A)	18.1	28.2
Rated AC output power(W)	4000	6000
THDv	<3%	<3%
Max. continuous AC passthrough current(A)	25A	35A
UPS		
Rated output power(W)	4000	6500
Rated output voltage(V)	230	230
Rated output current(A)	18	28.2
Rated output frequency(Hz)	50/60	50/60
Peak power and peak time	2 time peak power, 5s	2 time peak power, 5s
Switching time	<10ms	<10ms
Wave form	yes	yes
Dual Output	yes	6500
THDi	3%	3%
THDV	3%	3%
Efficiency		
Max. MPPT efficiency	99%	99%
Peak Efficiency (PV to INV)	94%	94%
Protection & function		
PV Reversed Protection	YES	
Over current/voltage protection	YES	
AC Short-circuit current protection	YES	
Grid monitoring	YES	
AC Surge protection	YES	
DC Surge protection	YES	
Battery reverse polarity protection	YES	
PV reverse polarity protection	YES	
power sales monitoring	YES	
CT Zero Output	YES	NO
General		
Ingress protection rating	IP20	IP21
Operating environment temperature range(°C)	-10~50	-10~50
Derating temperature	45°C	45°C
Storage temperature range(°C)	-15~60	-15~60
Relative humidity	5%~95%	5%~95%
Display & Communication interface	LED, RS485/Wi-Fi/CAN/USB	LED, RS485/Wi-Fi/CAN/USB
Warranty	2 years	2 years
Cooling method	Multistage speed regulation	Multistage speed regulation
Topology	Transformer-less	Transformer-less
Altitude	<4000m	<4000m
Noise emission(typical)	65dB	65dB
Parallel Capacity	9PCS	9PCS
Three-phase parallel	YES	YES
Standards & Certification		
Certification	IEC 62109-1, IEC 61000	IEC 62109-1, IEC 61000