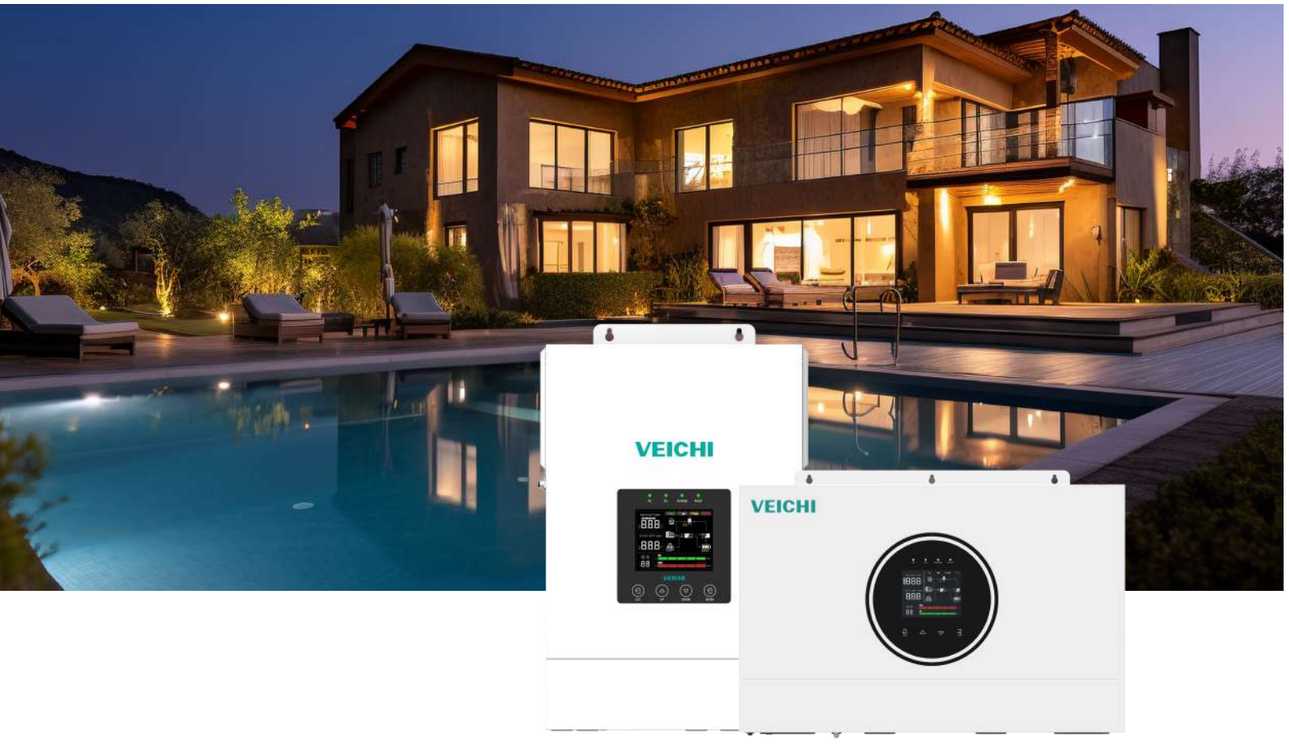
SV-(4/6)K-S1
SV-12K-S
MPPT Solar Inverter



Product Highlights

- Two-year warranty, generating more power throughout its life cycle
- Supports up to 1.3 times photovoltaic power input
- 10-milli second ultra-fast switching
- Built-in WiFi, connects to the VEICHI cloud platform
- Dual output design, extending critical load usage time
- Built-in diesel generator interface, no ATS required, smarter generator switching

Model	SV-4K-S1	SV-6K-S1	SV-12K-S
Input (PV DC)			
Max. PV array power(Wp)	7200	10800	24000
Maximum input power	4400	7800	18000
Number of MPPTs	1	1	2
Number of MPPT input strings	1	1	2
Rated PV input voltage(V)	500	550	500
PV input voltage range(V)	90~450	90~500	90~450
MPPT voltage range(V)	90~450	90~500	90~450
Start-up voltage(V)	120	120	120
Max. PV input current per MPPT(A)	18	27	30
Max. PV short-circuit current input per MPPT(A)	23	32	44
Battery			
Compatible battery type	Lead-acid & Lithium-ion	Lead-acid & Lithium-ion	Lead-acid & Lithium-ion
Communication protocol type	RS485/CAN	RS485/CAN	RS485/CAN
Rated battery voltage(V)	24	48	48
Battery voltage range(V)	20~30	42~60	42~60
Max. charge current(A)	120	120	250
Max. discharge current(A)	137	137	280
Active Battery	Yes	Yes	Yes
Grid			
Rated AC voltage(V)	230V AC	230V AC	230V AC
AC Voltage range	90~280V AC	90~280V AC	90~280V AC
Rated AC frequency(Hz)	50/60	50/60	50/60
Rated AC output current(A)	18.1	28.2	52.1
Rated AC output power(W)	4000	6000	12000
THDv	<3%	<3%	<3%
Max. continuous AC passthrough current(A)	35	35	Grid 70A/Generator 60A
UPS			
Rated output power(W)	4000	6000	12000
Rated output voltage(V)	230	230	230
Rated output current(A)	18	27	52.1
Rated output frequency(Hz)	50/60	50/60	50/60
Peak power and peak time	2 time peak power，5s	2 time peak power，5s	2 time peak power，5s
Switching time(ms)	4	4	4
Dual Output	YES	YES	YES
Efficiency			
Max. MPPT effciency	99%	99%	99%
Peak Efficiency (PV to INV)	94%	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		
General			
Ingress protection rating	IP21	IP21	IP21
Operating environment temperature range(℃)	-10~50		
Derating temperature(℃)	45		
Storage temperature range(℃)	-15~60		
Relative humidity	5%~95%		
Display & Communication interface	LED, RS485/Wi-Fi/CAN/USB		
Warranty	2 years		
Cooling method	Smart fan cooling		
Topology	Transformer-less		
Altitude(m)	<4000		
Noise emission(typical)(dB)	50		
Parallel Capacity(PCS)	/	9	9
Dimension (W*H*D)(mm)	390*525*125		625*400*120
Weight(kg)	9.3	10.3	20
Standards & Certification			
Certification	IEC 62109-1, IEC 61000, IEC61683		