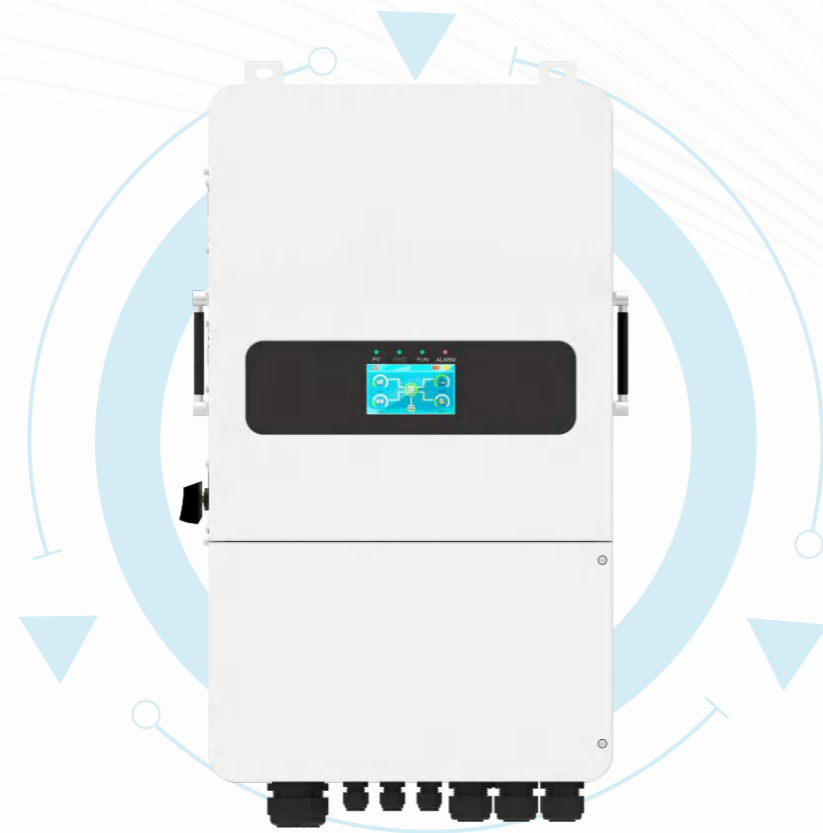


U3 SERIES SPLIT-PHASE HYBRID INVERTER

SS-H8K2L-U3 ~ SS-H12K2L-U3

8kW~12kW / BAT48V /IP66/120/240Vac



Reliable performance

- Both the battery side and the load side have super strong load capacity, smooth voltage and current waveforms, and can drive inductive loads such as air conditioning, supporting unlimited load
- Independent intelligent load/generator interface, compatible with existing PV system access, can operate without batteries (PV+grid combined power supply).
- Even without a battery, it can be bypassed for output, and important loads will not be powered off; Dynamically adapt to high-power demands.

Super Protection

- AICOT islanding protection, IP66 protection level, anti backflow (internal/external), PV reverse alarm, External CT reverse connection alarm and open circuit detection functions.

Economic benefits

- 2 MPPT channel, PV input can exceed twice times the rated power, supporting simultaneous full power charging and load, maximizing economic benefits.
- Supports grid connected, off grid, and grid connected switching modes, with adaptive frequency and the ability to set charging and discharging strategies based on time of use electricity prices to achieve economical energy use.

Friendly Design

- High definition touch screen supports multiple languages; Charge discharge three-level transformation technology; Customized AC output voltage standard; Battery closing soft start and battery activation function.

Parameters

MODEL	SS-H8K2L-U3	SS-H10K2L-U3	SS-H11.4K2L-U3	SS-H12K2L-U3
PV Input				
Max PV Input Power	16000W	20000W	22800W	24000W
Max PV Input Voltage	550Vdc			
PV Input Starting Voltage	90Vdc			
MPPT Input Voltage	370Vdc(90~550V)			
MPPT Full Load Voltage Range	185~550Vdc	175~550Vdc	200~550Vdc	210~550Vdc
PV Max Input Current	30A+15A		30A+30A	
PV Short-circuit Current	34A+17A		34A+34A	
Number of MPPT / Strings per MPPT	2/2+1		2/2+2	
AC Output				
Rated Output Voltage	120/240Vac (Split Phase) , 208Vac (2/3phase) , 220/230Vac (single phase)			
Grid Voltage Range	Local grid standard mode / Custom mode: 90Vac~280Vac (configurable)			
Output Frequency Range	50/60Hz(±5) , Intelligent adaptive/Settable			
Rated Output Current	33.3A/38.5A	41.7A/48.1A	47.5A/54.8A	50A/57.7A
Max Grid-connected Current	36.7A/42.3A	45.9A/53A	52.3A/60.3A	55A/63.5A
Rated Grid-connected Power	8000W	10000W	11400W	12000W
Max Grid-connected Viewing Power	8800VA	11000VA	12540VA	13200VA
Max Grid-connected Active Power	8800W	11000W	12540W	13200W
DC Component	< 0.5% In (Rated current)			
Grid Type	Split Phase;2/3 Phase;Single Phase			
Output Power Factor(cosφ)	> 0.99 @ Rated power (Adjustable 0.8 leading~0.8 lagging)			
THDi	< 3%			
THDu	< 2%(Linear load)			
Transfer Time	10ms(Typical value)			
Off-grid Overload Capability	100%-110% 3min , 110%-125% 1min , >125% 10S			
Battery Input				
Battery Type	Lead-acid, lithium batteries, gel batteries, etc			
Charging Mode	3-section type/Equilibrium/Self-adaption BMS			
Battery Voltage	48Vdc(40~60V)			
Max Discharge Current	170A	210A	250A	
Max Charging Current	170A(1~170Adjustable)	210A(1~210Adjustable)	250A(1~250Adjustable)	
Max Charge/Discharge Power	8000W	10000W	11400W	12000W
Efficiency				
Max PV Conversion Efficiency	97.6%			
European Efficiency	97.0%			
MPPT Efficiency	> 99%			
General Parameters				
Display	Touch Screen+LED			
Communication Mode	Standard: RS485/CAN/DRM, Optional 4G/WIFI/GPRS			
Protection function	Over/Under Volt Prot., Over/Under Freq Prot., AC Out SC/OL Prot., Anti-Island Prot., Batt Chg/Dchg OC Prot., Leakage Curr Prot., Insul Imped Prot., Grd Fault Prot., PV Rev Conn Alarm			
Surge Protection	DC Type II / AC Type III			
Noise (dB)	< 45			
Cooling	Intelligent fan			
Operating Ambient Temperature	-25°C ~ 60°C (> 45°C Derating)			
Humidity	0~100%			
Altitude	4000m (>2000m Derating)			
Electricity Consumption At Night	15W			
Protection Degree	IP66			
Installation Method	Wall-mounted			
Dimension. W*D*H(mm)	474*246*835			
Weight (kg)	42			
Warranty	5 years standard/10 years optional			
Certifications				
Certification	FCC, UL			
Certifications standard	FCC 47 CFR Part 15, UL1741, TSCA, CA65			

Specifications are subject to change without advance notice.