

Hybrid Inverter

SUN-7KS/7K6S/8KS48P1

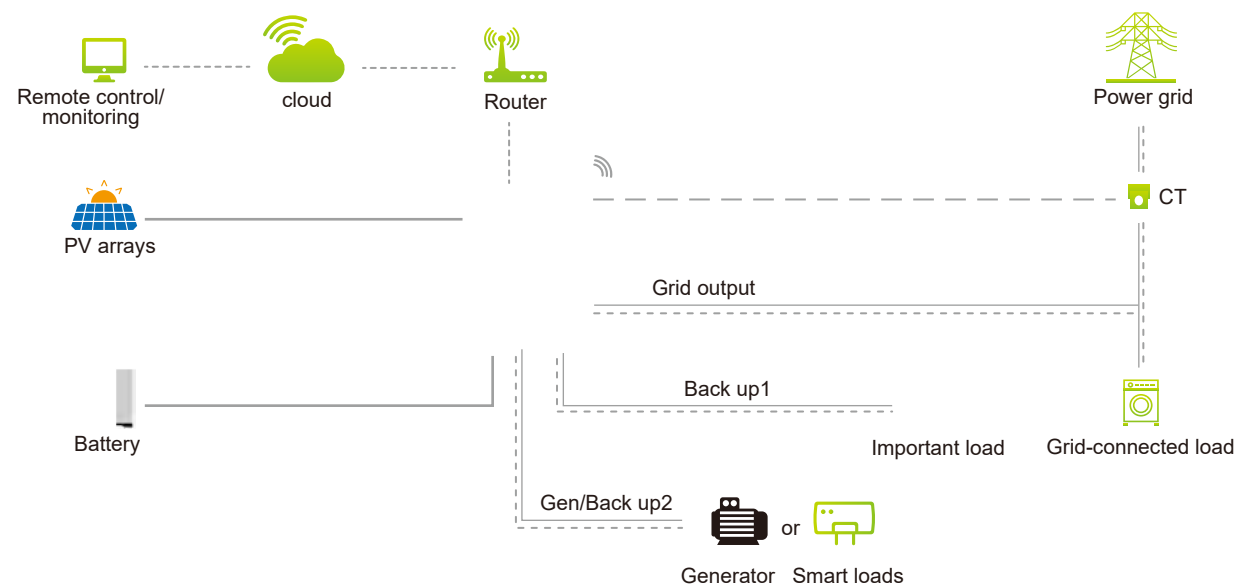


SUN series

Single-phase

- Up-to-120A current of battery charge and discharge
- Off-grid peak power of twice of rated power within 15 seconds
- Switching as uninterruptible power supply within 10ms
- Supporting lead-acid batteries and lithium batteries and matching economical solutions for different markets

Smart Energy Solutions



TECHNICAL DATA

Module Name	SUN-7KS48P1	SUN-7K6S48P1	SUN-8KS48P1
Battery input data			
Battery Type	Lithium or lead acid battery		
Rated battery voltage	48V		
Maximum charging voltage	≤60 (Configurable)		
Maximum charge/discharge current	175A	190A	190A
PV input data			
Maximum DC input power	14000W	15200W	16000W
Maximum DC input voltage	500V		
MPPT Operating voltage range	150~450V		
Starting voltage	125V		
Maximum input current	30/18A	30/18A	30/18A
MPPT number	2	2	2
AC output parameters (On-Grid)			
Maximum output apparent power	7700W	8360W	8800W
Rated output voltage	220/230V		
Rated output frequency	50/60Hz		
Max output current	35A	38A	40A
Output power factor	~1 (-0.8 leading~+0.8 lagging)		
AC output parameters(Off-Grid)			
Rated output apparent power	7000W	7600W	8000W
Maximum output apparent power	>200%,15sec		
Rated output voltage	220/230V		
Rated output frequency	50/60Hz		
Max output current	35A	38A	40A
Efficiency			
Max efficiency	98%		
Max efficiency	94.5%		
Europe efficiency	97.5%		
Protection			
PV input reverse polarity protection	Yes		
PV insulation resistance detection	Yes		
Residual current detection	Yes		
Output over current protection	Yes		
Output short circuit protection	Yes		
Output over voltage protection	Yes		
Basic data			
Operation temperature	-25°C~60°C (frequency-decreasing above 45°C)		
Storage temperature	-30~65°C		
Relative humidity	0~95%		
Working altitude	≤4000m (frequency-decreasing above 2000m)		
Cooling	Intelligent forced air cooling		
Noise	<55db		
Weight	21.5kg		
Dimensions (W*H*D)	198*427*554mm		
Protection class	IP66		
Topology	HF isolation (Battery side)		
Standard			
Safety standard/EMC standard	NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)		
Grid-connected standard	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140		
Other standard	IEC61683, IEC62116, EN50530, IEC60068		

