

Hybrid Inverter

SUN-5/6/7/8/10/12KS48P3



SUN series

Three-phase



Up-to-36A maximum input current



Off-grid peak power of 200% overload within 15 seconds

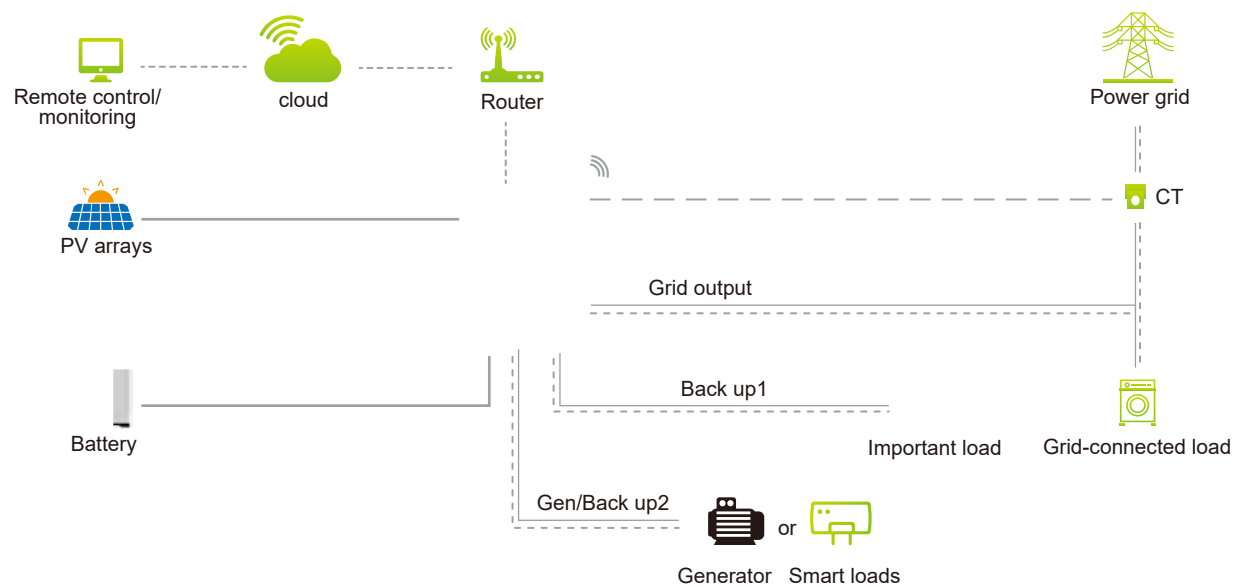


Adaptable to 18A modules and able to match mainstream highcurrent modules in the market



200% of photovoltaic over-proportion ratio for connecting more modules to ensure off-grid applications and fully charge battery;

Smart Energy Solutions



TECHNICAL DATA

Module Name	SUN-5KS48P3	SUN-6KS48P3	SUN-7KS48P3	SUN-8KS48P3	SUN-10KS48P3	SUN-12KS48P3
Battery input data						
Battery Type	Lithium or lead acid battery					
Rated battery voltage	48V					
Maximum charging voltage	≤60 (Configurable)					
Maximum charge/discharge current	120A	125A	150A	190A	210A	250A
PV input data						
Maximum DC input power	10000W	12000W	14000W	16000W	20000W	24000W
Maximum DC input voltage	1000V					
MPPT Operating voltage range	200~800V					
Starting voltage	150V					
Maximum input current	18A	18A	18A	18/18A	36/18A	36/18A
MPPT number	1	1	1	2	2	2
AC output parameters (On-Grid)						
Maximum output apparent power	5500W	6600W	7700W	8800W	11000W	13200W
Rated output voltage	380/400V					
Rated output frequency	50/60Hz					
Max output current	8.3A	10A	11.6A	13.3A	16.7A	20A
Output power factor	1 (-0.8 leading~+0.8 lagging)					
AC output parameters(Off-Grid)						
Rated output apparent power	5500W	6600W	7700W	8000W	10000W	12000W
Maximum output apparent power	>200%,15sec					
Rated output voltage	380/400V					
Rated output frequency	50/60Hz					
Max output current	8.3A	10A	11.6A	13.3A	16.7A	20A
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	38kg					
Dimensions (W*H*D)	475*683*256mm					
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					

