

WSP-KSP

SINGLE-PHASE HYBRID INVERTER

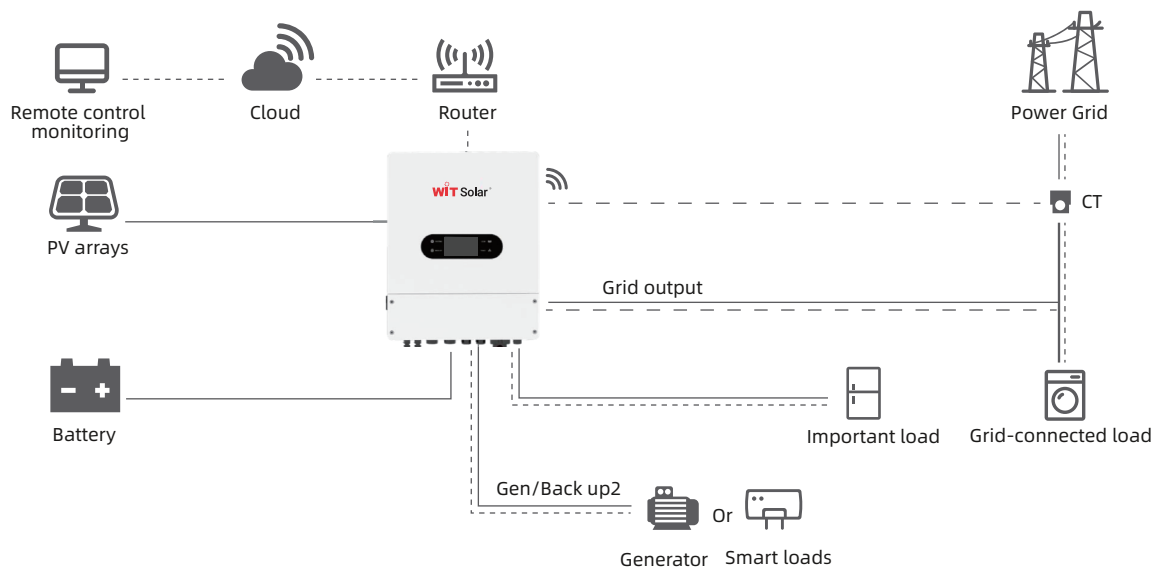
3K6S48P/4K6S48P/5KS48P



FEATURES

-  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 10 seconds
-  Supporting lead-acid batteries and lithium batteries and matching economical solutions for different markets

SOLUTION DESIGN



TECHNICAL DATA

Model Name	3KS48P	4KS48P	5KS48P
Battery input data			
Battery Type	Lithium or lead acid battery		
Rated battery voltage	48V		
Maximum charging voltage	≤60(Configurable)		
Maximum charge/discharge current	90A	110A	120A
PV input data			
Maximum DC input power	7.2kW	9.2kW	10kW
Maximum DC input voltage	500V		
MPPT Operating voltage range	150~450V		
Starting voltage	125V		
Maximum input current	18/18A	18/18A	18/18A
MPPT number	2		
AC output parameters (On-Grid)			
Maximum output apparent power	3960W	5000W	5500W
Rated output voltage	220/230V		
Rated output frequency	50/60Hz		
Max output current	18A	22A	25A
Output power factor	1 (-0.8 leading~~+0.8 lagging)		
AC output parameters (Off-Grid)			
Rated output apparent power	3600W	4600W	5000W
Maximum output apparent power	> 200%, 15sec		
Rated output voltage	230V		
Rated output frequency	50/60Hz		
Max output current	16A	21A	23A
Efficiency			
Max efficiency	97.6%		
Max efficiency	94.5%		
Europe efficiency	97%		
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℃~60℃ (frequency-decreasing above 45℃)		
Storage temperature	-30~65℃		
Relative humidity	0~95%		
Working altitude	≤4000m(frequency-decreasing above 2000m)		
Cooling	Natural cooling		
Noise	<55db		
Weight	20kg		
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-Richtinie R25, UNE217001/2, Ordinance No.140		
Other standard	IEC61683,IEC62116,EN50530,IEC60068		