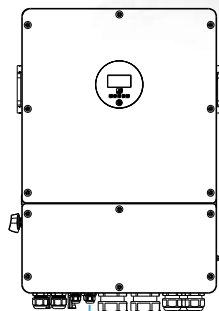
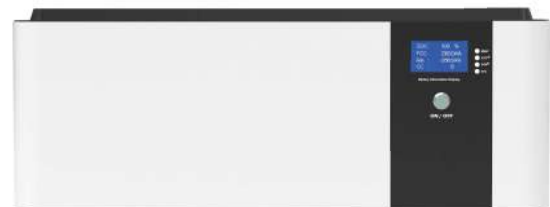


71Kwh~112Kwh

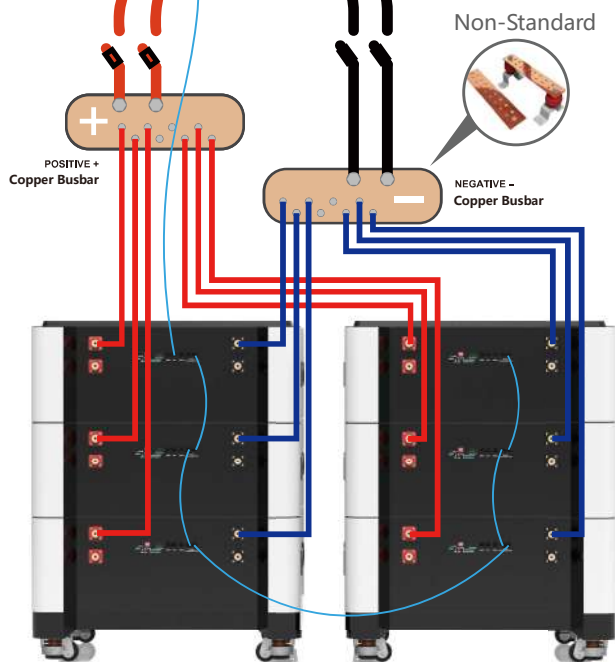
Household energy storage battery solution



Optional 15~25Kw
LV(48V) inverter



14.3~16Kwh
Single Battery Module
Supports ≤ 15 Parallel



BATTERY DATA

71Kwh & 112Kwh Low Voltage(48v) Energy Storage Battery

Models	LFP51300		
Single Battery Module			
Nominal Voltage	51.2V		
Nominal Capacity	280Ah / 314Ah		
Battery Energy	14.3Kwh / 16Kwh		
Discharging Cut-off Voltage	44.8V± 0.2V		
Charging Cut-off Voltage	57.6V± 0.2V		
Discharging Current	Recommend / 100A; Max. / 200A; Peak / 210A(5 sec)		
Charging Current	Recommend / 40A ; Max. / 100A		
Battery System Data			
Number of Modules	5	6	7
Parallel capacity	1400Ah / 1570Ah	1680Ah / 1884Ah	1960Ah / 2198Ah
Nominal Voltage	51.2V	51.2V	51.2V
Battery Energy	71.68Kwh / 80.38Kwh	86Kwh / 96.4Kwh	100.3Kwh / 112.5Kwh
Maximum charging current	300A*	360A*	420A*
Maximum discharge current	500A*	600A*	700A*
Dimensions (L/D/H) (Two groups)	690*590*874mm + 690*590*631mm	690*590*874mm + 690*590*874mm	690*590*874mm + 690*590*1117mm
Weight	≈617.5Kg	≈735.5Kg	≈853.5Kg
Battery Cell Type	LiFePO4 Battery(Lithium iron phosphate battery)		
Case Material	Metal Box		
Communication Mode	RS485/CAN		
Working Temperature	0°C~50°C Charge / -10°C~50°C Discharge		
Humidity	5~90%(RH)		
Applications	ON Grid / ON Grid + Backup / OFF Grid		
Design Life Cycle	10+Years (25°C/77°F)		
Cycle Life	≥6500		

※ This current value must be obtained by connecting each battery independently to the busbar and then aggregating the current data. This value is affected by factors such as wire length and ambient temperature.

Optional Inverter Technical Data



Datasheet	WIT 17K-HU	WIT 18K-HU	WIT 20K-HU	WIT 22K-HU	WIT 25K-HU
Input data (PV)					
Max. recommended PV power (for module STC)	34000W	36000W	40000W	44000W	50000W
Max. input voltage			1000V		
Start voltage			180V		
Nominal voltage			625V		
MPPT voltage range			150V~850V		
Max. input current per MPP tracker			40A		
Max. short-circuit current per MPP tracker			50A		
No. of MPP trackers			2		
No. of PV strings per MPP tracker			2		
Input/Output AC (Including the Gen Port)					
AC input/output nominal power(Grid)	34000W/17000W	36000W/18000W	40000W/20000W	44000W/22000W	50000W/25000W
Max. AC input/output apparent power(Grid)	37400VA/18700VA	39600VA/19800VA	44000VA/22000VA	48400VA/24200VA	55000VA/27500VA
Max. input/output current(Grid)	56.670A/28.33A	60A/30A	66.67A/33.33A	73.33A/36.66A	83.33A/41.67A
Max. input current(GEN/AC couple)	51.51A/25.75A	54.55A/27.27A	60.61A/30.30A	66.67A/33.33A	75.76A/37.88A
Nominal AC voltage/range	220V/380V, 230V/400V,240V/415V, -15%~+10%				
Nominal AC grid frequency/range	50/60Hz, 45~55Hz/55~65 Hz				
Adjustable power factor	-1...+1				
THDi	<3%				
AC grid connection type	3P+PE/3P+N+PE				
Battery data (DC)					
Battery type	Lead-acid or Lithium-ion				
Battery voltage range	40-60V				
Max charging and discharging current	420A				
Recommended battery voltage	51.2V				
BMS communication	RS485/CAN				
Backup power (AC)*					
Rated AC output power	17000W	18000W	20000W	22000W	25000W
Max. AC apparent power	2 time of rated power, 10 S				
Rated AC output voltage	220V/380V, 230V/400V, 240V/415V				
Nominal AC output frequency	50/60Hz				
Max. output current	51.52A	54.55A	60.61A	66.67A	75.76A
THDv	3%@(Linear load)				
Load unbalance	100% three-phase unbalanced				
On/off grid transfer time	< 10ms				
Efficiency					
Max. efficiency	97.6%				
European efficiency	97%				
MPPT efficiency	99.90%				
Protection devices					
PV reverse polarity protection	Yes				
DC switch	Yes				
DC/AC surge protection	Type II / Type II				
Insulation resistance monitoring	Yes				
Residual-current monitoring unit	Yes				
AC short-circuit protection	Yes				
Ground fault monitoring	Yes				
Grid monitoring	Yes				
Strings monitoring	Yes				
Anti-islanding protection	Yes				
AFCI function	Opt				
General					
Dimensions (W / H / D)	475×695×241mm				
Weight	55kg				
Operating temperature range	-30°C ... +60°C (> 45°C, derating)				
Noise	≤55dB(A)				
Relative humidity	0~100%				
Altitude	4000m				
Topology	Transformerless				
Cooling	Smart air cooling				
IP degree	IP66				
Display	OLED/LED+APP				
Interfaces: RS485/USB	Yes				
Interfaces: WIFI/LAN	Yes				
Warranty (5/10 years)	Yes/Opt				
IEC62109, EC 61000, IEC 61727, EC 62116, EN 50549, VDE 4105					