



Residential ESS

BESCORE Residential ESS can save your electric bill a lot , in case of peak load tariff and secure your home from potential power outages.

The smart system ensures a safety, stable and reliable operating environment. Under the support of independent and advanced technology in BMS, EMS, PCS.



Battery Module Connected in Parallel

Max allowable power[W]	5000
Max input voltage[v]	550
MPPT voltae range[∨]	125~450
Max input current[A]	2x15
Nax input channel	2
Battery	
Battery type	LFP
Nominal voltage $[v]$	51.2
Battery capacity[Ah]	105
System capacity[Wh]	10752
Voltage range[V]	42.4~58.4
Max charge current[A]	100[0.5C] 60[0.3C]
Max discharge current[A]	100[0.5C] 60[0.3C]
Discharge cut-off voitage[v]	42.4
Operation temperature range [${^\circ\!\mathrm{C}}$]	Charge:0~55;Discharge:-20~55
Storage temperature range $[{}^{\circ}\!{}^{\circ}]$	-20~60
Communication	RS485;CAN2.0B



EPS Output

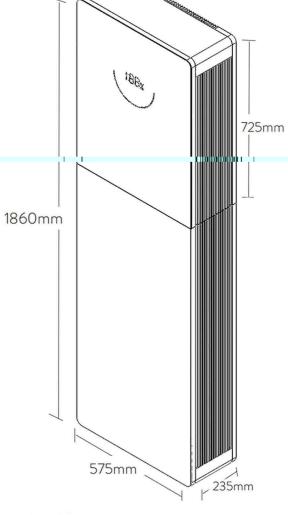
Rated output power[W]	4600
Max output power[A]	20
Rated output	50hz,230VAC
Total harmonic distortion (THD)	<3%

AC(grid) Output

Rated output power[W]	4600
"Biterloupout	J5N272330VAC
Rated output current[A]	20
Total harmonic distortion (THD)	<3%
Power factor range	0.8 leading~0.8lagging
Power factor [At rated power]	1

Efficiency

Max efficiency	98.5%	
Euro efficiency	98%	
MPPT efficiency	99%	
Max charge efficiency	97%	



Protection

Battery over voltage threshold $[V]$	cell voltage:≥3.65;module voltage:≥58.4
${\sf Battery\ under\ voltage\ threshold[V]}$	cell voltage:≤2.65;module voltage:≤42.4
Battery over temperature [${}^{\circ}\!\mathbb{C}$]	charge:≥55;discharge:≥55
Battery under temperature [${}^{\circ}\mathbb{C}$]	charge:≤0;discharge20:≤-20

Certifications and standards

Grid regulation	VDE-AR-N 4105
	VDE 0126-1-1
Safety	IEC 62109-1/2
EMC	EN61000-6-2/3

BESCORE

E-mail:info@bescore-ess.com