








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.

- 
LONG LIFE CYCLE
- 
EASY INSTALLATION
- 
ON/OFF GRID
- 
PEAK LOAD SHIFTING
- 
HIGH EFFICIENCY



Battery Module Connected in Parallel

Max allowable power[W]	5000
Max input voltage[V]	550
MPPT voltage range[V]	125~450
Max input current[A]	2x15
Max 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 voltage[V]	42.4
Operation temperature range[°C]	Charge:0~55;Discharge:-20~55
Storage temperature range[°C]	-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
Rated output	50hz,230VAC
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
Battery under voltage threshold[V]	cell voltage:≤2.65;module voltage:≤42.4
Battery over temperature[°C]	charge:≥55;discharge:≥55
Battery under temperature[°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

