








## 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 |

### BESCORE

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