



Residential & Commercial ESS HV51100 5.12kWh Module

R20/ R25/ R30/ R35/ R40/ R45/ R50/ R60K



**>8500
Cycles**

**10 years
Warranty**

**20kWh ~ 60kWh
Flexible Expansion**

**5 units
Parallel connection**

PRODUCT FEATURES



Safe and reliable

Cathode material is made from LiFePO4 with safety performance and long cycle life



Flexible configuration

Multiple battery modules can be in parallel for expanding capacity and power



Convenient

Quick installation standard of 19 inch embedded designed module is comfortable for installation and maintenance



Intelligent BMS

Protection functions including over discharge, over charge, over current and over high or low temperature



Applications

Residential energy storage
Commercial and industrial energy management
Emergency power backup
Off-grid power solutions
Renewable energy integration

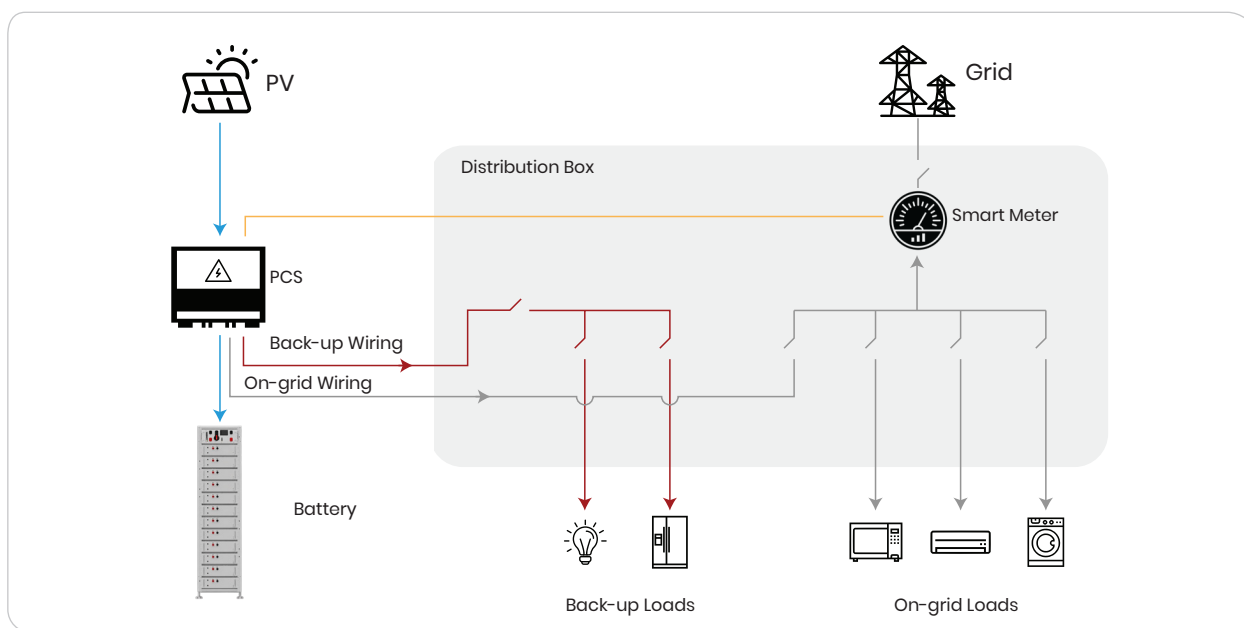


20kWh

40kWh

60kWh

SPECIFICATIONS



| Model | PCE-R20K | PCE-R25K | PCE-R30K | PCE-R35K | PCE-R40K | PCE-R45K | PCE-R50K | PCE-R55K | PCE-R60K |
|--|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Nominal Capacity (kWh) | 20.48 | 25.60 | 30.72 | 35.84 | 40.96 | 46.08 | 51.20 | 56.32 | 61.44 |
| Cell Matching | 64SIP | 80SIP | 96SIP | 112SIP | 128SIP | 144SIP | 160SIP | 176SIP | 192SIP |
| Nominal Voltage (V) | 204.8 | 256 | 307.2 | 358.4 | 409.6 | 460.8 | 512 | 563.2 | 614.4 |
| Working Voltage Range (V) | 179.2-230.4 | 224-288 | 268.8-345.6 | 313.6-403.2 | 358.4-460.8 | 403.2-518.4 | 448-576 | 492.8-633.6 | 537.6-691.2 |
| Weight (kg) | 201.4 | 268 | 309.6 | 351.2 | 392.8 | 434.4 | 499 | 540.6 | 582.2 |
| Dimension (WxDxH mm) | 553*503 *1011 | 553*503 *1620 | 553*503 *1620 | 553*503 *1620 | 553*503 *1620 | 553*503 *2230 | 553*503 *2230 | 553*503 *2230 | 553*503 *2230 |
| Number of Battery Modules | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Battery Type | LFP (LiFePO4) | | | | | | | | |
| Nominal Working Current | 100A | | | | | | | | |
| Communication Port | CAN / TCP/IP | | | | | | | | |
| Working Temperature Range | Charge: 0-55°C / Discharge: -20-60°C | | | | | | | | |
| Waterproof | IP20 | | | | | | | | |
| Installation Method | Floor-standing | | | | | | | | |
| Cycle Life | 8500 | | | | | | | | |
| Warranty Period | 10 years | | | | | | | | |
| Peak Charge/Discharge Current (@25°C,5S) | 125A | | | | | | | | |
| Discharge Rate of Module | ≤3.5% / month/ @25°C | | | | | | | | |
| Parallel Connection | 5 units in parallel | | | | | | | | |

If the size and parameters of the product are changed, the latest information will prevail without further notice.