

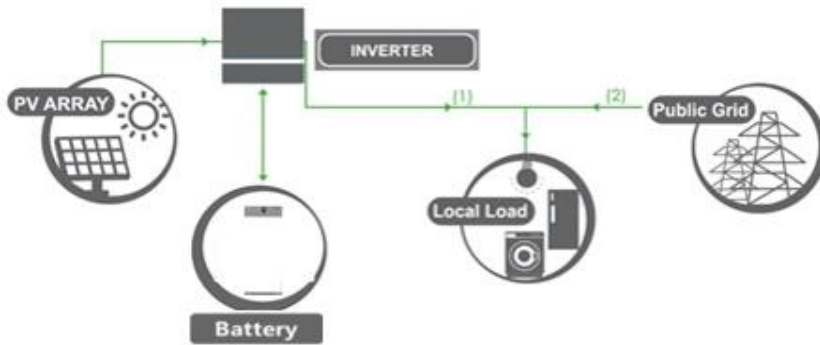


High Voltage Energy Storage Battery HV5120-S Series Specification

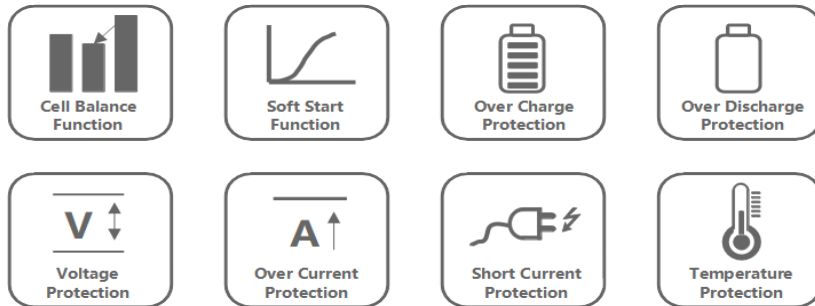


Application

Be specially designed for multiple energy storage application scenarios including household, data center, and commercial building, bank, hospital, school, railway station, airport and telecom, etc.



Feature



Advantages

- 1 Long Design Life
- 2 Multiple Protection
- 3 Modular Design
- 4 Dekra Certification
- 5 Scalable & Flexible
- 6 Easy Maintenance

HV5120-S1 Specification

| No. | Items | Specification |
|-----|------------------------|---|
| 1 | Product Name | Rechargeable Lithium Iron Phosphate Module |
| 2 | Module Model | HV5120-S1 |
| 3 | Battery Type | LFP 1P32S |
| 4 | Nominal Capacity | 5.12kWh |
| 5 | Usable Capacity | 4.86kWh (95% DOD) |
| 6 | Nominal Voltage | 102.4V |
| 7 | Working Voltage | 91.2~115.2V |
| 8 | Charging Voltage | 112V |
| 9 | Max. Charge Current | 25A |
| 10 | Max. Discharge Current | 40A |
| 11 | Communication | RS485 , CAN |
| 12 | Storage Temperature | 0°C ~ 45°C (Recommended) |
| 13 | Storage Humidity | ≤85% (RH) |
| 14 | Working Temperature | Charging: -10°C ~ 50°C Discharging: -20°C ~ 50°C |
| 15 | Working Humidity | ≤95% (RH) No Condensation |
| 16 | Working Altitude | ≤2000m |
| 17 | Ingress Protection | IP55 |
| 18 | Protective Class | I |
| 19 | Weight | ~48kg |
| 20 | Dimension | 636mm*330mm*188mm |
| 21 | Design Life | 15 Years (25°C) |
| 22 | Cycle Life | > 6000 (25°C) ,60% EOL |
| 23 | Scalability | Module: Max. 8S, Max. 8 in parallel (Capacity 327.68kWh) |
| 24 | Certification | CE, IEC62619, IEC63056, IEC/EN61000-6-2/3, UN38.3 (upcoming) |

High Voltage Stack Battery System



| Product Name | High Voltage Stack Battery System | | | |
|---------------------------|-----------------------------------|-----------------------|-----------------------|-----------------------|
| Product Model | HV5120-S1-2S | HV5120-S1-3S | HV5120-S1-4S | HV5120-S1-5S |
| Nominal Capacity(kWh) | 10.24 | 15.36 | 20.48 | 25.6 |
| Usable Capacity(kWh) | 9.72 | 14.58 | 19.44 | 24.3 |
| Nominal Voltage(V) | 204.8 | 307.2 | 409.6 | 512 |
| Working Voltage(V) | 182.4~230.4 | 273.6~345.6 | 364.8~460.8 | 456~576 |
| Charging Voltage(V) | 224 | 336 | 448 | 560 |
| Max. Charge Current(A) | 25 | 25 | 25 | 25 |
| Max. Discharge Current(A) | 40 | 40 | 40 | 40 |
| Weight(kg) | ~117 | ~165 | ~213 | ~261 |
| Dimension(mm3) | 636*330*628 | 636*330*816 | 636*330*1004 | 636*330*1192 |
| Design Life | 15 Years (25°C) | 15 Years (25°C) | 15 Years (25°C) | 15 Years (25°C) |
| Scalability | Max. 8 in parallel | Max. 8 in parallel | Max. 8 in parallel | Max. 8 in parallel |

| Product Name | High Voltage Stack Battery System | | |
|---------------------------|-----------------------------------|-----------------------|-----------------------|
| Product Model | HV5120-S1-6S | HV5120-S1-7S | HV5120-S1-8S |
| Nominal Capacity(kWh) | 30.72 | 35.84 | 40.96 |
| Usable Capacity(kWh) | 29.16 | 34.02 | 38.88 |
| Nominal Voltage(V) | 614.4 | 716.8 | 819.2 |
| Working Voltage(V) | 547.2~691.2 | 638.4~806.4 | 729.6~921.6 |
| Charging Voltage(V) | 672 | 784 | 896 |
| Max. Charge Current(A) | 25 | 25 | 25 |
| Max. Discharge Current(A) | 40 | 40 | 40 |
| Weight(kg) | ~309 | ~357 | ~405 |
| Dimension(mm3) | 636*330*1380 | 636*330*1568 | 636*330*1756 |
| Design Life | 15 Years (25°C) | 15 Years (25°C) | 15 Years (25°C) |
| Scalability | Max. 8 in parallel | Max. 8 in parallel | Max. 8 in parallel |