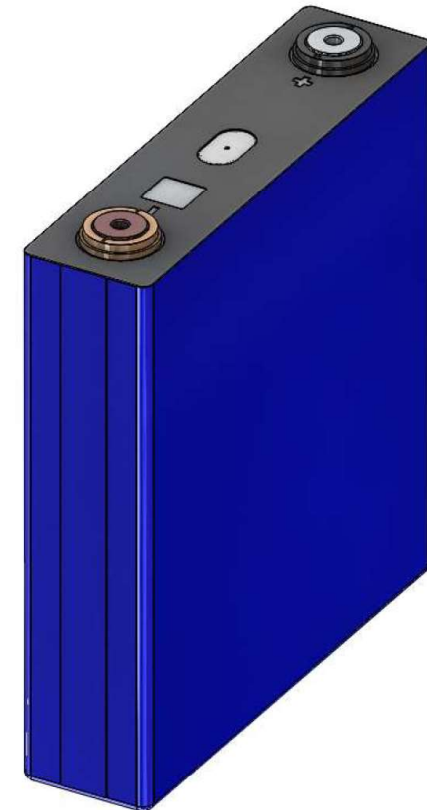

HVDC LFPR-345(150)300

Cell 3.2V 150Ah
Module(Shelf) 57.6V 150Ah
(18S1P)

telephone companies and large base stations
large-scale energy storage devices(Internal module for container ESS solutions)
electric propulsion and hybrid propulsion ship

Cell Specification

| Item | Parameters | Remark | Reference |
|--|---|--|-----------|
| Model | LFPC-32150 | | |
| Nominal Capacity(Ah) | 150 | RT / 1C1C DCH to 2.5V | |
| Nominal Voltage(V) | 3.2 | | |
| Internal Impedance(mΩ) | ≤ 0.4 | AC 1kHz | |
| Weight(kg) | 3.22±0.2 | | |
| Energy Density(Wh/kg) | 149 | RT / 1C1C | |
| Energy Density(Wh/L) | 324 | RT / 1C1C | |
| Cycle Life(Cycles) | 5000 | 80%SOC; RT / 1C1C; 2.5V to 3.65V | |
| Low Temperature Discharge Capacity Retention (-20°C) | ≥ 60% | RT / 1C CC-CV to 3.65V @0.05C, -20°C DC to 2.0V | |
| Self-discharge Rate | ≤ 4% | @month | |
| Standard Charge Current(A) | 0.5C | | |
| Max. Charge Continues Current(A) | 1.0C | Max. Pulse Current 3C(10Sec) | |
| Max. Charge Voltage(V) | 3.65 | | |
| Standard Discharge Current(A) | 1C | | |
| Max. Discharge Continues Current(A) | 2C | Max. Pulse Current 5C(10Sec) | |
| Discharge End Voltage(V) | 2.0 | | |
| Dimensions (mm) | 44.7(width) * 174.2(length) * 190(height) | | |



Module Specification

| Item | Parameters | Remark | Reference |
|------------------------------------|---|------------------------|-----------|
| Model | AESM-57150 | 18S1P | |
| Rated Voltage(V) | 57.6 | | |
| Typical Capacity(Ah) | 150 | 25°C 0.5C discharge | |
| Typical Capacity(KWh) | 8.64 | 25°C 0.5C discharge | |
| Standard Charge Voltage(V) | 63.9 | Voltage per Cell 3.55V | |
| Standard Charge Current(A) | 75 | 0.5C | |
| Standard Discharge Current(A) | 75 | 0.5C | |
| Max. Cont. Charge Current(A) | 150 | 1.0C / Max. Peak 2.0C | |
| Max. Cont. Discharge Current(A) | 150 | 1.0C / Max. Peak 2.0C | |
| Communications | CAN | CAN 2.0 | |
| Temperature Range of Charge(°C) | 0 ~ 55 | | |
| Temperature Range of Discharge(°C) | -20 ~ 60 | | |
| Energy Density (KWh/L) | 186.14 | | |
| Dimensions (mm) | 303(width) * 720(depth) * 192.9(height) | | |
| Weight (kg) | ≤ 75 | | |



System Specification [HVDC LFPR-345150]


System Specification (1Rack/2System)

| Item | Specification | Reference |
|-------------------------------|------------------|-----------|
| Model | HVDC-LFPR-345150 | |
| Energy(KWh) | 51.8 | |
| Typical Capacity(Ah) | 150 | |
| Rated Voltage(V) | 345.6 | |
| Standard Charge Voltage(V) | 383.4 | |
| Standard End Voltage(V) | 302.4 | |
| Standard Charge Current(A) | 75 | |
| Standard Discharge Current(A) | 75 | |
| Maximum Charge Current(A) | 150 | |
| Maximum Discharge Current(A) | 150 | |
| Communications | CAN | |
| Operating Temperature(°C) | -20 ~ 60 | |
| Energy Density | (Wh/L) | 99.06 |
| | (KWh/m2) | 99.06 |
| Dimensions (WxDxH) (mm) | 760 x 690 x 973 | |
| Weight (kg) | ≤ 550 | |




System Specification [HVDC LFPR-345300]

System Specification (1Rack/2System)

| Item | Specification | Reference |
|-------------------------------|------------------|--|
| Model | HVDC-LFPR-345300 |  |
| Energy(KWh) | 51.84 x 2 | |
| Typical Capacity(Ah) | 150 x 2 | |
| Rated Voltage(V) | 345.6 | |
| Standard Charge Voltage(V) | 383.4 | |
| Standard End Voltage(V) | 302.4 | |
| Standard Charge Current(A) | 75 x 2 | |
| Standard Discharge Current(A) | 75 x 2 | |
| Maximum Charge Current(A) | 150 x 2 | |
| Maximum Discharge Current(A) | 150 x 2 | |
| Communications | CAN, ETHERNET | |
| Operating Temperature(°C) | -20 ~ 60 | |
| Energy Density | (Wh/L) | |
| | (KWh/m2) | |
| Dimensions (WxDxH) (mm) | 760 x 690 x 1950 | |
| Weight (kg) | ≤ 1054 | |

System Specification [HVDC LFPR-345300]

PDS Specification (Max 5Rack/10System)

| Item | Specification | Reference |
|------------------------------------|------------------|--|
| Model | HVDC-PDPR-500S |  |
| Main Voltage (V) | 500V Max. | |
| Main Current (A) | 500A Max. | |
| Distribution Voltage (V) | 500V Max. | |
| Distribution Current (A) | 250A Max. | |
| Distribution Channel | 10 Ch. | |
| Remote Monitoring Interface | CAN, ETHERNET | |
| Alarm Output Max. Voltage (V) | 60 | |
| Alarm Output Max. Current (A) | 1 | |
| Alarm Output Max. Drop Voltage (V) | 2 | |
| Alarm Output Channel | 2 | |
| Operating Temperature(°C) | -20 ~ 60 | |
| Dimensions (WxDxH) (mm) | 760 x 690 x 1950 | |
| Weight (kg) | ≤ 200 | |