

INDUSTRIAL&COMMERCIAL ENERGY STORAGE SYSTEM



20ft Liquid Cooling Container Energy Storage System



| Model number                              | ZJLB-ESS-1000V-05  |
|---|--|
| <b>Technical parameter</b>                |  |
| Battery type                              | Lithium iron phosphate(LiFePO <sub>4</sub> )                               |
| Normal Battery capacity(KWH)              | 3440   |
| Normal capacity of cell(AH)               | 280  |
| Normal voltage(V)                         | 1228.8   |
| Operating voltage range(V)                | 1075.2-1382.4  |
| Number of modules                         | 320  |
| Battery system composition mode           | 1P48S8S10P   |
| Battery pack type                         | Short pack back to back layout   |
| Max.continuous charging current(A)        | 1600   |
| Standard charging current(A)              | 1400   |
| Max.continuous discharge current(A)       | 1600   |
| Standard discharge current( A)            | 1400   |
| DOD                                       | 80%  |
| Cell type                                 | 280Ah(lithium iron phosphate)  |
| Life cycle                                | >6000 次@80%DOD with 70% remaining  |
| Whether the warranty document is provided | provide  |
| Compatible inverter                       | According to customer needs  |
| <b>Protection</b>                         |  |
| Protection mechanism                      | Over temperature, Over charge, Low pressure, Overload, Short circuit alarm |
| <b>Communication</b>                      |  |
| Communication interface                   | RS485, Ethernet, CAN   |
| Gommunication protocol                    | ModbusRTU/TCP, IEC61850  |
| Dimension(L*W*H mm)                       | 6058*2438*2896   |
| weight(KG)                                | ≤35000   |
| Container color                           | Can specify  |
| Fire extinguisher system                  | Yes  |
| Shipping status                           | SOC:20%~30%  |
| Charging environment temperature          | 0°C~50°C   |
| Discharge environment temperature         | -20~+55°C  |
| Short-term storage temperature            | -20~+35°C(<3month,SOC:10%~30% SOC)   |
| Longterm storage temperature              | -20~+40°C(<1year,SOC: 30%~50% SOC)   |
| Altitude                                  | >2000m Derating  |
| Protection class                          | IP54, outdoor installation   |
| Relative humidity                         | 0 ~ 95% RH without condensation  |
| Battery system cooling type               | liquid cooling   |
| Certification                             | CE/IEC/UN38.3/UL1973 as per customer needs                                 |

## 20 Ft DC/AC Liquid Cooling Container ESS

| Model number              | ZEN-T1200-C2750 | ZEN-T1100-C3520 | ZEN-T1100-C2290 | ZEN-T900-C2060 | ZEN-T800-C1830 | ZEN-T700-C1600 | ZEN-T600-C1370 |
|---------------------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|
| Power/Capacity (Optional) | 1.2MW/2.75MWh   | 1.2MW/2.75MWh   | 1.2MW/2.75MWh   | 1.2MW/2.75MWh  | 1.2MW/2.75MWh  | 1.2MW/2.75MWh  | 1.2MW/2.75MWh  |

### AC (On grid)

|                        |                                   |      |      |      |      |      |     |
|------------------------|-----------------------------------|------|------|------|------|------|-----|
| Max.output power(KVA)  | 1320                              | 1210 | 1100 | 990  | 880  | 770  | 660 |
| Rated output power(KW) | 1200                              | 1100 | 1000 | 900  | 800  | 700  | 600 |
| Rated voltage(V)       | 400                               |      |      |      |      |      |     |
| Voltage range(V)       | 360-440                           |      |      |      |      |      |     |
| Rated current(A)       | 1680                              | 1540 | 1400 | 1260 | 1120 | 980  | 840 |
| Max.output current(A)  | 1848                              | 1694 | 1540 | 1386 | 1232 | 1078 | 924 |
| Rated frequency(Hz)    | 50/60                             |      |      |      |      |      |     |
| Frequency range(Hz)    | ±5%                               |      |      |      |      |      |     |
| THDI                   | ≤2%                               |      |      |      |      |      |     |
| PF                     | -0.99 (leading) ~ +0.99 (lagging) |      |      |      |      |      |     |
| Output topology        | 3W+N+PE                           |      |      |      |      |      |     |

### AC (Off grid)

|                     |                           |  |  |  |  |  |  |
|---------------------|---------------------------|--|--|--|--|--|--|
| Rated voltage(V)    | 400                       |  |  |  |  |  |  |
| THDU                | <1% Linear <5% Non-Linear |  |  |  |  |  |  |
| Rated frequency(Hz) | 50/60                     |  |  |  |  |  |  |
| Overload            | 110% continuous           |  |  |  |  |  |  |

### DC(Battery)

|                     |                       |             |             |            |            |            |            |
|---------------------|-----------------------|-------------|-------------|------------|------------|------------|------------|
| Capacity(KWH)       | 2752                  | 2523        | 2293        | 2064       | 1835       | 1605       | 1376       |
| Module              | 51.2V/280Ah           |             |             |            |            |            |            |
| Battery             | LiFePO4               |             |             |            |            |            |            |
| BMS                 | ModbusTCP, IEC61850   |             |             |            |            |            |            |
| Series and parallel | 1P64S,4S12P           | 1P64S,4S11P | 1P64S,4S10P | 1P64S,4S9P | 1P64S,4S8P | 1P64S,4S7P | 1P64S,4S6P |
| Voltage range(V)    | 819.2V<br>716.8-921.6 |             |             |            |            |            |            |

### General data

|                       |  |        |        |        |        |        |        |
|-----------------------|--|--------|--------|--------|--------|--------|--------|
| Ingress protection    | Battery IP67,Container IP54                    |        |        |        |        |        |        |
| Fire suppression      | HFC-227ea,FM200, 2-METHYL-3-PENTANONE, aerosol |        |        |        |        |        |        |
| Temperature           | -30~+50°C                                      |        |        |        |        |        |        |
| Battery cooling       | Forced air cooling                             |        |        |        |        |        |        |
| Battery cooling       | Liquid cooling                                 |        |        |        |        |        |        |
| Relative humidity     | 0~95%RH (non-condensing)                       |        |        |        |        |        |        |
| Altitude              | ≤2000m   |        |        |        |        |        |        |
| Dimensions W*D*H (MM) | 6058*2438*2896                                 |        |        |        |        |        |        |
| Weight(KG)            | ≤33000   | ≤31200 | ≤29400 | ≤27600 | ≤25800 | ≤24000 | ≤22200 |
| Switch                | Manual   |        |        |        |        |        |        |

### Display&communication

|             |               |  |  |  |  |  |  |
|-------------|---------------|--|--|--|--|--|--|
| EMS display | LCD           |  |  |  |  |  |  |
| BMS         | RS485/CAN     |  |  |  |  |  |  |
| EMS         | RS485, TCP/IP |  |  |  |  |  |  |

