## LITHIUM IRON PHOSPHATE BATTERY

| ELECTRICAL SPECIFICATIONS |  |
| :--- | :---: |
| Nominal Voltage | 12.8 V |
| Nominal Capacity | 100 Ah |
| Capacity ( 20A | 300 min |
| Energy | 1280 Wh |
| Resistance | $\leqslant 30 \mathrm{~m} \Omega$ a $50 \% \mathrm{SOC}$ |
| Efficienty | $99 \%$ |
| Self Discharge | $<3.5 \%$ per Month |
| Maximum Modules in Series Or Parallel | 6 |


| DISCHARGE SPECIFICATIONS |  |
| :--- | :---: |
| Maximum Continuous Discharge Current | 100 A |
| Peak Discharge Current | $260 \mathrm{Al} \leq 5 \mathrm{~s}]$ |
| BMS Discharge Current Cut-Off | $300 \mathrm{~A} \pm 0 \mathrm{~A}[2.2 \pm \mathrm{ms}]$ |
| Recommended Low Votage Disconnect | 8 V |
| BMS Discharge Voltage Cut-Off | $8 \mathrm{~V}[2.0 \pm 0.08 \mathrm{vpcl}$ |
| Reconnect Voltage | $[100 \pm 50 \mathrm{~ms}]$ |
| Short Circuit Protection | $10 \mathrm{~V}[2.5 \pm 0.1 \mathrm{vpc}]$ |

## TEMPERATURE SPECIFICATIONS

| Discharge Temperature | -4 to $140{ }^{\circ} \mathrm{F}\left(-20\right.$ to $\left.60^{\circ} \mathrm{C}\right)$ |
| :--- | :---: |
| Charge Temperature | 32 to $113{ }^{\circ} \mathrm{F}\left(0\right.$ to $\left.455^{\circ} \mathrm{C}\right)$ |
| Storage Temperature | 23 to $95^{\circ} \mathrm{F}\left(-5\right.$ to $\left.35^{\circ} \mathrm{C}\right)$ |
| BMS High Temperature Cut-Off (discharge) | $149^{\circ} \mathrm{F}\left(65^{\circ} \mathrm{C}\right)($ Customized $)$ |
| Reconnect Temperature | $122^{\circ} \mathrm{F}\left(50^{\circ} \mathrm{C}\right)($ Customized $)$ |
| Low Temperature Cut-0ff (Charge) | $32^{\circ}{ }^{\circ}\left(0^{\circ} \mathrm{C}\right)($ Customized $)$ |
| High Temperature Cut-Off(Charge) | $129.2^{\circ} \mathrm{F}\left(54^{\circ} \mathrm{C}\right)($ Customized $)$ |


| MECHANICAL SPECIFICATIONS |  |
| :--- | :---: |
| Dimensions $(L \times W \times H)$ | $325^{*} 175^{*} 215 \mathrm{~mm}$ |
| Weight | 11.5 KG |
| Terminal Type | M8 |
| Case Material | ABS |
| Enclosure Protection | PP56 |
| Cell Type | Prismatic |
| Chemistry | LiFePO4 |
| Configuration | 4 SIP |


| CHARGE SPECIFICATIONS |  |
| :--- | :---: |
| Recommended Charge Current | 50 A |
| Maximum Charge Current | 100 A |
| Recommended Charge Voltage | 14.5 V |
| BMS Charge Voltage Cut-0ff | $15.6 \mathrm{~V}(3.9 \pm 0.1 \mathrm{~V}]$ |
| Reconnect Voltage | $15.2 \mathrm{~V}(3.8 \pm 0.1 \mathrm{~V})$ |
| Balancing Voltage | $14.4 \mathrm{~V}[3.6 \pm 0.025 \mathrm{vpc})$ |
| Balancing Current | $35 \pm 5 \mathrm{~mA}$ |

COMPLIANCE SPECIFICATIONS

Certifications
CE (battery) UN3B.3 (battery) UL1973 \& IEC62133 (cells)

Shipping Classification
UN 3480, CLASS 9

## DIMENSIONAL SPECIFICATIONS


 publication, under any circumstances. Mesan New Energy reserves the right to make adjustments to this publication at any time, without notice or obligation.

