

# IW-12.8V 150Ah

## LITHIUM IRON PHOSPHATE BATTERY



**High cycle life**  
>3000 cycles @80%  
DOD for effectively  
lower total cost of  
ownership.



**Longer service life**  
Stable,  
low- maintenance  
batteries with smart  
SOC monitoring.



**Built in circuit  
protection**  
BMS are incorporated  
against abuse.



**Quickly recharge**  
Superior charge-  
discharge efficiency  
minimizes downtime  
for higher  
productivity.



**Extreme heat  
tolerance**  
Reliable up to +60 ° C,  
ideal for  
high- temperature  
scenarios.

## DATASHEET

| ELECTRICAL PERFORMANCE             |                                            |
|------------------------------------|--------------------------------------------|
| Nominal Voltage                    | 12.8 V                                     |
| Nominal Capacity                   | 150 Ah                                     |
| Capacity @ 8.4A                    | 300 min                                    |
| Energy                             | 1920 Wh                                    |
| Resistance                         | $\leq 50 \text{ m}\Omega$ @ 50% SOC        |
| Self Discharge                     | <3% / Month                                |
| Cells                              | 32700 Cell 6000mAh                         |
| CHARGE PERFORMANCE                 |                                            |
| Recommended Charge Current         | 30 A                                       |
| Maximum Charge Current             | 75 A                                       |
| Recommended Charge Voltage         | 14.6 V                                     |
| Charge Cut-Off Voltage             | <15.2 V (0.5 ~ 1.5 s)                      |
| Reconnect Voltage                  | >14.4 V                                    |
| Balancing Voltage                  | <14V                                       |
| Maximum Batteries in Series        | 4                                          |
| DISCHARGE PERFORMANCE              |                                            |
| Continuous Discharge Current       | 75 A                                       |
| Max Discharge Current              | 120 A                                      |
| BMS Discharge Cut-Off Current      | 300 A (5 ~ 15 ms)                          |
| Recommended Low Voltage Disconnect | 10 V                                       |
| BMS Discharge Cut-Off Voltage      | >8.4 V (50 ~ 150 ms)                       |
| Reconnect Voltage                  | >10 V                                      |
| Short Circuit Protection           | 200 ~ 600 $\mu\text{s}$                    |
| TEMPERATURE PERFORMANCE            |                                            |
| Discharge Temperature              | -4 ~ 140 °F (-20 ~ 60 °C)                  |
| Charge Temperature                 | 32 ~ 113 °F (0 ~ 45 °C)                    |
| Storage Temperature                | 23 ~ 95 °F (-5 ~ 35 °C)                    |
| BMS High Temperature Cut-Off       | 149 °F (65 °C)                             |
| Reconnect Temperature              | 118 °F (48 °C)                             |
| MECHANICAL PERFORMANCE             |                                            |
| Dimension (L x W x H)              | 483 x 170 x 240 mm    19.01 x 6.69 x 9.45" |
| Approx. Weight                     | 17.8 kg                                    |
| Terminal Type                      | M8                                         |
| Terminal Torque                    | 80 ~ 100 in-lbs (9 ~ 11 N-m)               |
| Case Material                      | ABS                                        |
| Enclosure Protection               | IP65                                       |
| COMPLIANCE                         |                                            |
| Certifications                     | CE, UN38.3, UL1642 & IEC62133              |
| Shipping Classification            | UN 3480, CLASS 9                           |

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