

IW-12.8V 100Ah

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	100 Ah
Capacity @ 20A	300 min
Energy	1280 Wh
Resistance	$\leq 20 \text{ m } \Omega$ @ 50% SOC
Self Discharge	<3% / Month
Cells	Prismatic Cell 100Ah
CHARGE PERFORMANCE	
Recommended Charge Current	20 A
Maximum Charge Current	50 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	<14 V
Maximum Batteries in Series	4
DISCHARGE PERFORMANCE	
Continuous Discharge Current	50 A
Maximum continuous Discharge Current	100 A
Peak Discharge Cut-Off Current	300 A(20-80ms)
Recommended Low Voltage Disconnect	10 V
Discharge Cut-Off Voltage	>8.4 V (50 ~ 150 ms)
Reconnect Voltage	>9.2 V
Short Circuit Protection	200 ~ 600 μ 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)
High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	118 °F (48 °C)
MECHANICAL PERFORMANCE	
Dimension (L x W x H)	395 x 110 x 286 mm 15.55 x 4.33x 11.26"
Approx. Weight	12.0kg
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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