

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	
Maximum continuous Discharge Current	150A
Peak Discharge Cut-Off Current	450A (200~500ms)
Discharge Cut-Off Voltage	10V (2000 ms)
Reconnect Voltage	>11.2V
Short Circuit Protection	1000-2000A+ 400A(200 ~ 800 μ s)
TEMPERATURE PERFORMANCE	
Discharge Temperature	-20~75° C
Charge Temperature	0~50° C
Storage Temperature	-5~35° C
DIMENSION	
Dimensions	L330 *W172*H215mm
MECHANICAL PERFORMANCE	
Weight	11.5kg
Terminal Type	M8
Terminal Torque	80~100 in-lbs (9~11 N-m)
Case Material	ABS
Ingress Protection Code	IP65
Bluetooth	Bluetooth 4.0 with smartphone App
Weight	11.5kg
COMPLIANCE	
Certifications	CE, UN38.3, UL1642 & IEC62133
Shipping Classification	UN 3480, CLASS 9

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