

IW-12.8V 300Ah

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	300 Ah
Capacity @ 40A	300 min
Energy	3840 Wh
Resistance	$\leq 15 \text{ m}\Omega$ @ 50% SOC
Self Discharge	<3% / Month
Cells	Prismatic Cell 3.2V304Ah
CHARGE PERFORMANCE	
Recommended Charge Current	60 A
Maximum Charge Current	150 A
Recommended Charge Voltage	14.6 V
Charge Cut-Off Voltage	<15.2V (0.5 ~ 1.5 s)
Reconnect Voltage	>14.4V
Balancing Voltage	<14V
Maximum Batteries in Parallel	4
DISCHARGE PERFORMANCE	
Continuous Discharge Current	60 A
Max Discharge Current	300 A
BMS Discharge Cut-Off Current	900 A (20-80ms)
Recommended Low Voltage Disconnect	10 V
BMS Discharge Cut-Off Voltage	>8.8V (50 ~ 150 ms)
Reconnect Voltage	>9.2V
Short Circuit Protection	200 ~ 600 μs
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)	520 x 269 x 220 mm 20.47 x 10.59 x 8.66"
Approx. Weight	29.0 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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