



RV256100V2-Pro DATA SHEET



DESIGNED
IN USA

Voltage: 25.6V | Capacity: 100Ah | Energy: 2560Wh

LITHIUM IRON PHOSPHATE BATTERY **LiFePO4**

Electrical Parameters

Nominal Voltage	25.6V
Nominal Capacity	100Ah
Discharge Time@50A	120min
Internal Resistance	≤30mΩ @ 50%SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series/Parallel	2/8

Discharge Parameters

Max Continuous Discharge Current	80A
BMS Discharge Protection Current	200A (5s)
Recommended Low Voltage Protection	24V
BMS Low Voltage Protection Value	22.4V (3s)
Low Voltage Protection Release Value	24.8V
Short-Circuit Protection	200-600(μs)

Temperature Parameters

Discharge Temperature Range	-4~131(°F)
Charge Temperature Range	-4~122(°F)
Recommended Storage temperature	-4~113(°F)
Discharge High Temperature Protection	149°F
Charge High Temperature Protection	140°F
High Temperature Protection Release	118°F

Mechanical Parameters

Size (L*W*H)	19.68x8.66x9.82(inch) 500x220x249(mm)
Weight	57.3lbs (26kg)
Terminal	M8x1.25x12mm
Terminal Torque	62in-lbs (7N-m)
Casing Material	PC+ABS
IP Code	IP20
Chemistry	LiFePO4

Charge Parameters

Recommended Charge Current	10A-50A
Max Continuous Charge Current	50A
Recommended Charge Voltage	28.4V-29.2V
BMS High Voltage Protection Value	29.2V (3s)
High Voltage Protection Release Value	27.6V
Balance Opening Voltage	28V

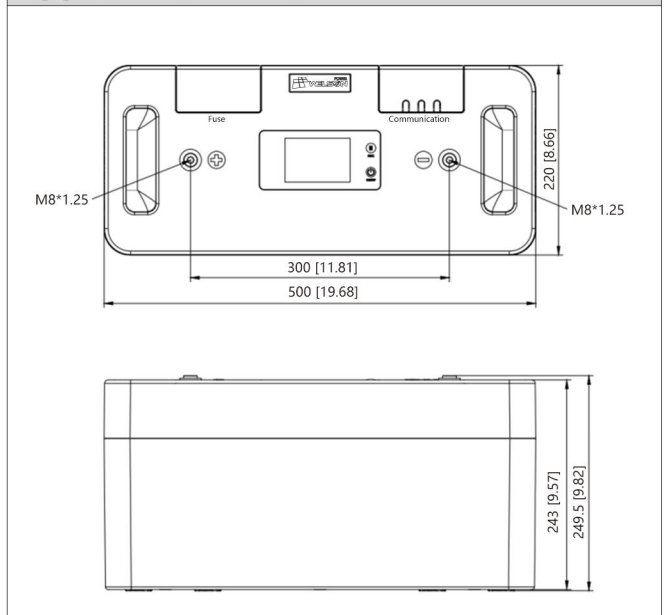
Heating Parameters

Heating Temperature Range	-4~50(°F)
Heating Time	1hr @ 5A
Stop Heating Temperature	167°F (75°C)

Specs

Certification	UN38.3&CE(battery) UL1642(cells) IEC62619(battery)
Transport	UN3480, CLASS 9

Appearance Dimension



Application



RV Camping



Solar light



Household ESS



Golf cart



Marine vessel battery



Electric tools



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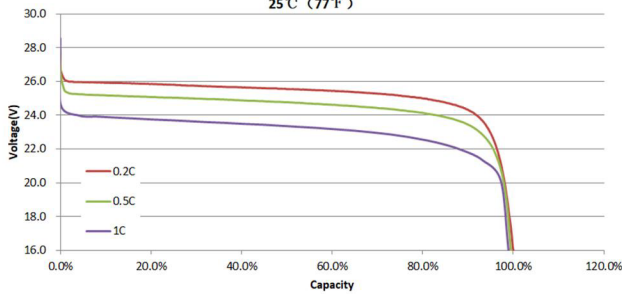
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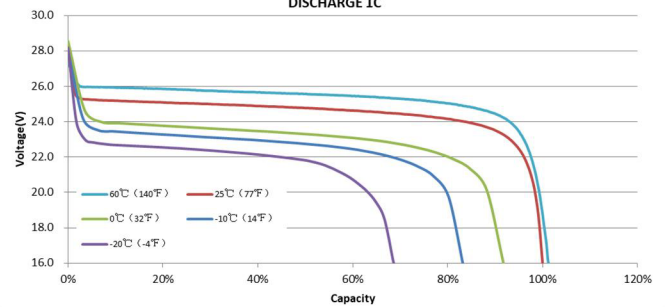
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PERFORMANCE CHARACTERISTICS

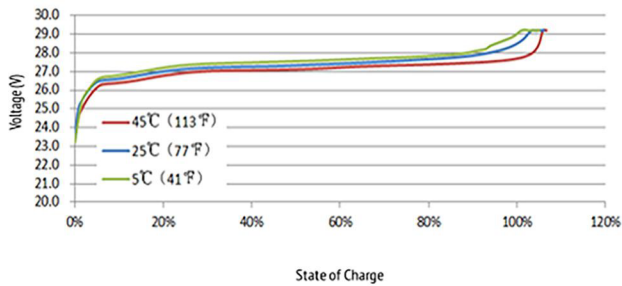
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES
25°C (77°F)



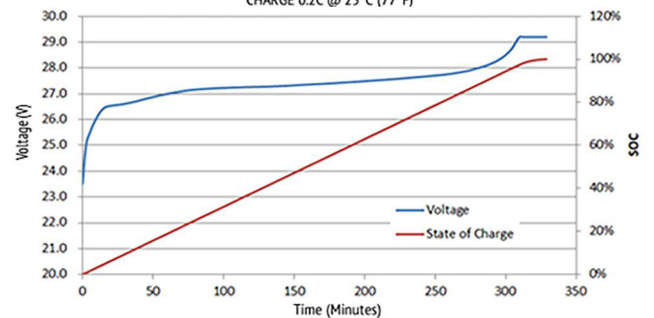
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
DISCHARGE 1C



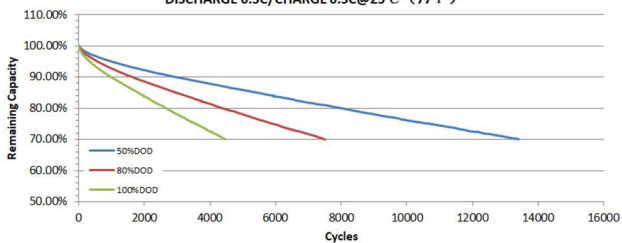
CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES
CHARGE 0.2C



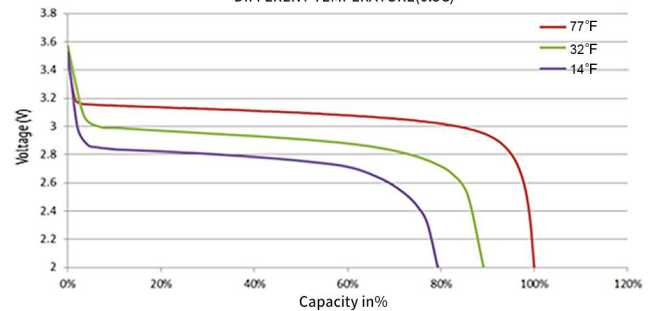
CHARGE VOLTAGE and STATE OF CHARGE (SOC)
CHARGE 0.2C @ 25°C (77°F)



CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)
DISCHARGE 0.5C/CHARGE 0.5C@25°C (77°F)



CELL DISCHARGE CURVES UNDER DIFFERENT TEMPERATURE(0.5C)



UN38.3



Welson Power Technology (Wuxi) Co., Ltd reserves the right of final interpretation of this product



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