

NANTONG NINGYUAN AUTOMATION TECHNOLOGY CO.,LTD

Add:11#c, 299 Kerun road, Gangzha District, Nantong, China TEL:0086-0513-83598587 FAX:0086-0513-83598587

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS				
NominalVoltage	12.8 V			
NominalCapacity	30 Ah			
Capacity @ 3A	10H			
Energy	384Wh			
Resistance	≤60 mΩ@ 50% SOC			
Efficiency	99%;			
SelfDischarge	<3% per Month			
Maximum Modules in Series	1 (Single Use)			
DISCHARGE SPECIFICATIONS				
Maximum Continuous Discharge Current	10 A			
Peak Discharge Current	20 A (7.5 s ± 2.5 s)			
BMS Discharge Current Cut-Of	f 215 A ±15 A (10 ±5 ms)			
Recommended Low Voltage Disconnect	10 V			
BMS Discharge VoltageCut-Of	f8 V (2.0 ±0.08 vpc) (20 ±6 ms)			
ReconnectVoltage	10V(2.5±0.05vpc)			
ShortCircuitProtection	200-600 μs			
TEMPERATURE SPECIFICATIONS	5			
Discharge Temperature	-4 to 140 °F (-20 to 60 °C)			
Charge Temperature	-4 to 113 °F (-20 to 45 °C) 23 to 95 °F (-5 to 35 °C)			
Storage Temperature				

f176 °F (80 °C)

122 °F (50°C)

MECHANICAL SPECIFICATIONS					
Dimensions (L x W x H)	220 20 255				
	330x 20 x 255 mm				
Weight	4.2kg				
TerminalType	Lead cable				
Terminal Torque	No				
CaseMaterial	Epoxy board				
Enclosure Protection	IP54				
CellType-Chemistry	Prismatic - LiFePO ₄				
CHARGE SPECIFICATIONS					
Recommended Charge Current	2.5 A - 10A				
Maximum Charge Current	10 A				
Charge Current (0 to -10 °C)	≤0.1 C				
Charge Current (-20to -10°C)	≤0.05C				
Recommended Charge Voltage	14.2 V - 14.6 V				
BMS Charge Voltage Cut-Off	15.6 V(3.9 ±0.025 vpc)				
	(1.1 ±0.4 s)				
ReconnectVoltage	15.2 V (3.8 ±0.05 vpc)				
Balancing Voltage	14.4 V (3.6 vpc)				

COMPLIANCE SPECIFICATIONS

Certifications	CE (battery)
	UN38.3 & IEC62133 (cells)
ShippingClassification	UN 3480, CLASS 9

DIMENSIONAL SPECIFICATIONS

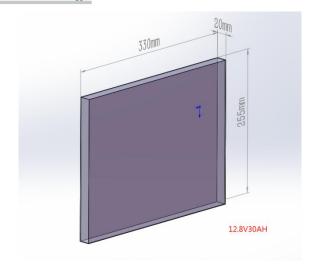
BMS High Temperature Cut-Of

Reconnect Temperature

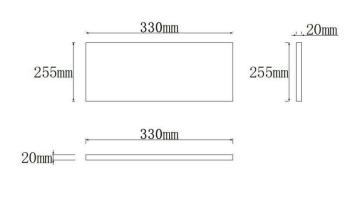
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Product Image



Product Dimensions



Discharge Constant Current per Cell (Amperes at 77°F25°C)							
F.V/Time	30min	45min	lh	2h	3h	5h	8h
3.75V	25.05	16.66	12.48	6.35	4.16	2.49	1.58
3.65V	25.02	16.46	12.50	6.22	4.11	2.47	1.56
3.65V	24.99	16.26	12.52	6.09	4.06	2.45	1.54
3.50V	24.96	16.06	12.54	5.96	4.01	2.43	1.52

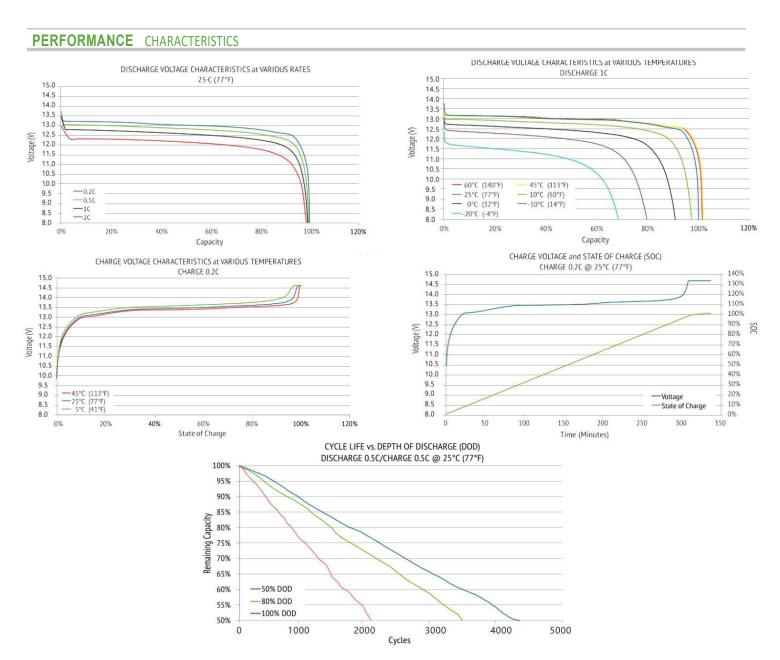
Discharge Constant Power per Cell (Watts at 77°F 25°C)									
E.V/Time	I2min	15min	30min	45min	lh	2h	3h	5h	8h
2.10V	62.5	31.3	6.3	16.7	12.5	25.1	4.2	2.5	1.6
2.20V	62.7	31.5	6.3	16.9	12.7	25.3	4.4	2.7	1.7
2.30V	62.9	31.7	6.3	17.1	12.9	25.5	4.6	2.9	1.8
2.40V	63.1	31.9	6.3	17.4	13.1	25.7	4.9	3.1	2.0
2.50V	63.3	32.1	6.3	17.6	13.3	25.9	5.1	3.3	2.1

Note The above data are average values, and can be obtained within 20 charge/discharge cycles. These are not minimum values.Cell and batteiy designs/specifications are subject to modification without notice. Contact US for the latest information.



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BatteryConstruction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	
Raw material	lifepo4	lifepo4	Epoxy board	PVC	PVC	lifepo4	