



26650 Lithium Ion Power Cell

Nanophosphate® Technology

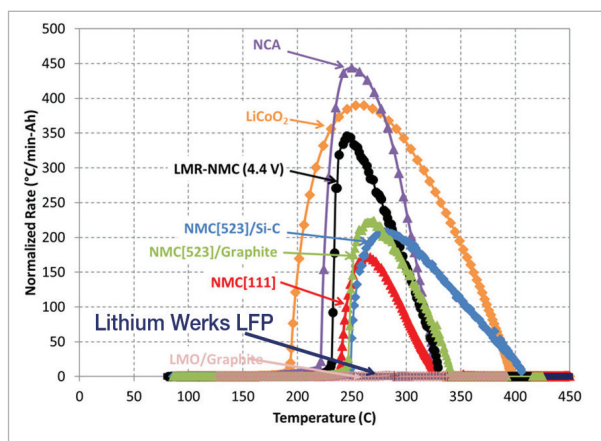
Lithium Werks' 26650 cells are best for Power.Safety.Life.™ applications. They deliver very high power due to their use of patented Nanophosphate® battery technology. Based on lithium iron phosphate chemistry (LiFePO_4), the cells are inherently safe over a wide range of temperatures and conditions. Whether the application requires outstanding cycle life or stable float reliability, the Lithium Werks' 26650 cells are suitable for a wide variety of power, pulse, or stand-by applications.

Nanophosphate® battery technology offers thermal-stable chemistry, faster charging, consistent output, low capacity loss over time, and superior total cost of ownership (TCO). It provides the foundation for safe systems while meeting the most demanding customer requirements. Multiple layers of protection are employed at the chemistry, cell and system level to achieve an energy storage solution with superior safety and abuse tolerance compared to metal oxide lithium-ion chemistries.

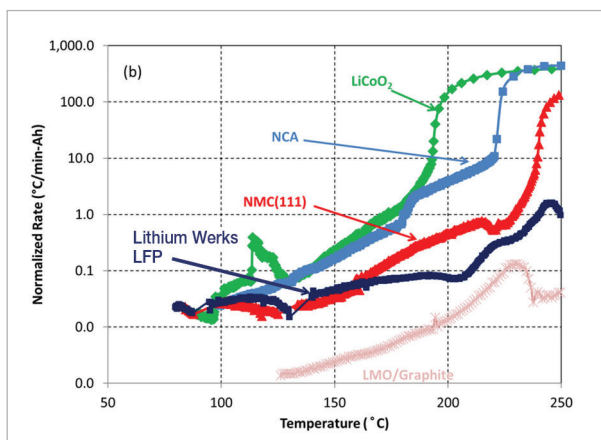
Applications

- Uninterruptible Power Supplies
- Frequency regulation
- Aviation/Aerospace
- Medical devices
- Engine starting
- Energy storage
- Industrial equipment
- Electrified mobility devices
- Telecom & 5G battery back-up

Inherent Safety of LFP



Electro-chemistry	Lithium Werks LFP	NMC (111)	NCA	LiCoO ₂
Thermal Runaway Characteristic	Low-Energy, Non-Propagating	High-Energy, Propagating		
Probability of Propagation	Very Low	Very High (pack-level mitigation required)		
Runaway Onset Temp (°C)	≥210	≥160	≥120	
Peak Thermal Runaway Temp	≈250	≥750		
Peak Rate of Temp Increase (°C/min-Ah)	<2.0	>150	>400	



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Specs for ANR26650M1B

Nominal Ratings

Voltage	3.3 V
Capacity @ 23 °C Typical (Min)	2.6 Ah (2.5 Ah)
Energy @ 23 °C	8.58 Wh
Specific Power @ 25 °C, 2 sec pulse	> 4000 W/kg
Impedance (1KHz AC)	<10 mΩ
Cycle Life at 1C/1C, 100% DOD	> 4000 cycles

Discharging

Max Continuous Discharge Current	52 A (20C rate)
Max Pulse Discharge Current (10s)	120 A (48C rate)
Minimum Voltage / HPPC Pulse	2 V / 1.6 V
Temperature	-30 °C to 60 °C

Charging

Recommended Charge Current	3 A (1.2C rate)
Max Continuous Charge Current	26 A (10C rate)
Max Pulse Charge Current (10s)	40 A (15C rate)
Recommended Fast Charge Voltage	3.6 V
Terminate Charge @ 3.6 V	< 50 mA
HPPC Pulse Voltage	3.8 V
Float Charge Voltage	3.5 V
Temperature Range (Charging current at <250mA when under 0°C for some applications)	0 °C to 60 °C

Storage

Storage Temperature	-40 °C to 70 °C
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Mechanical

Diameter	Ø25.96 +/- 0.5 mm
Length	65.15 +/- 0.5 mm
Mass	76.0 g +/- 1.5 g

Certifications

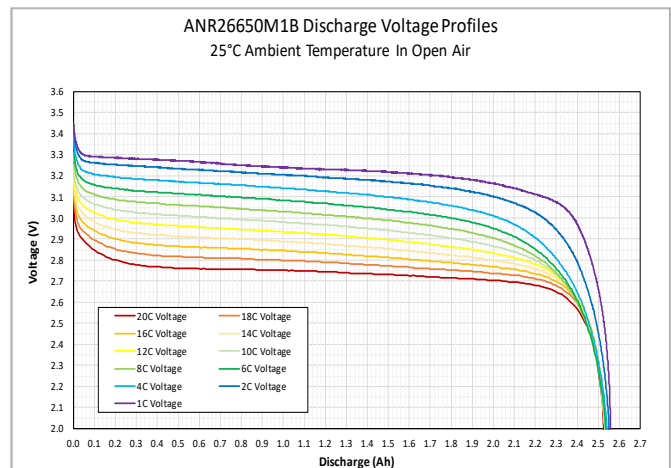
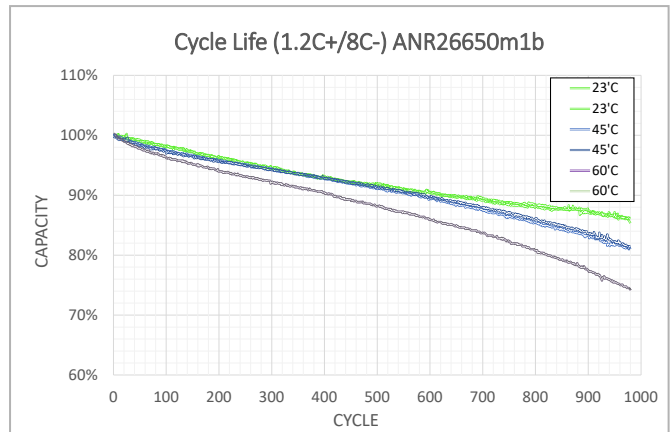
Transportation	UN 3480 (UN38.3), CIQ
Safety	UL 1642, UL1973, IEC 62133-2
Environmental	REACH, RoHS, ISO-14001
Quality System	TS/IATF-16949, ISO-9001

Transportation

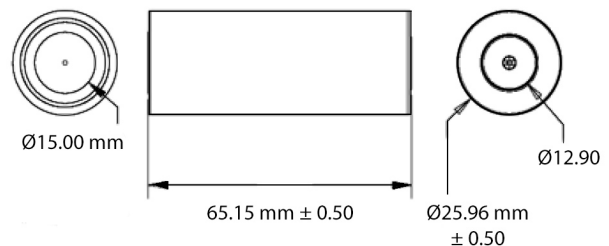
Shipping	30% SOC
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Part Number 300832-001

Cell Data



Dimensions



26650 Data Sheet
Sept 2024
SF00008 rev 3

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Performance may vary depending on, but not limited to cell usage and application. If cell is used outside specifications, performance will diminish.