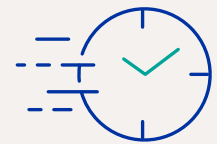
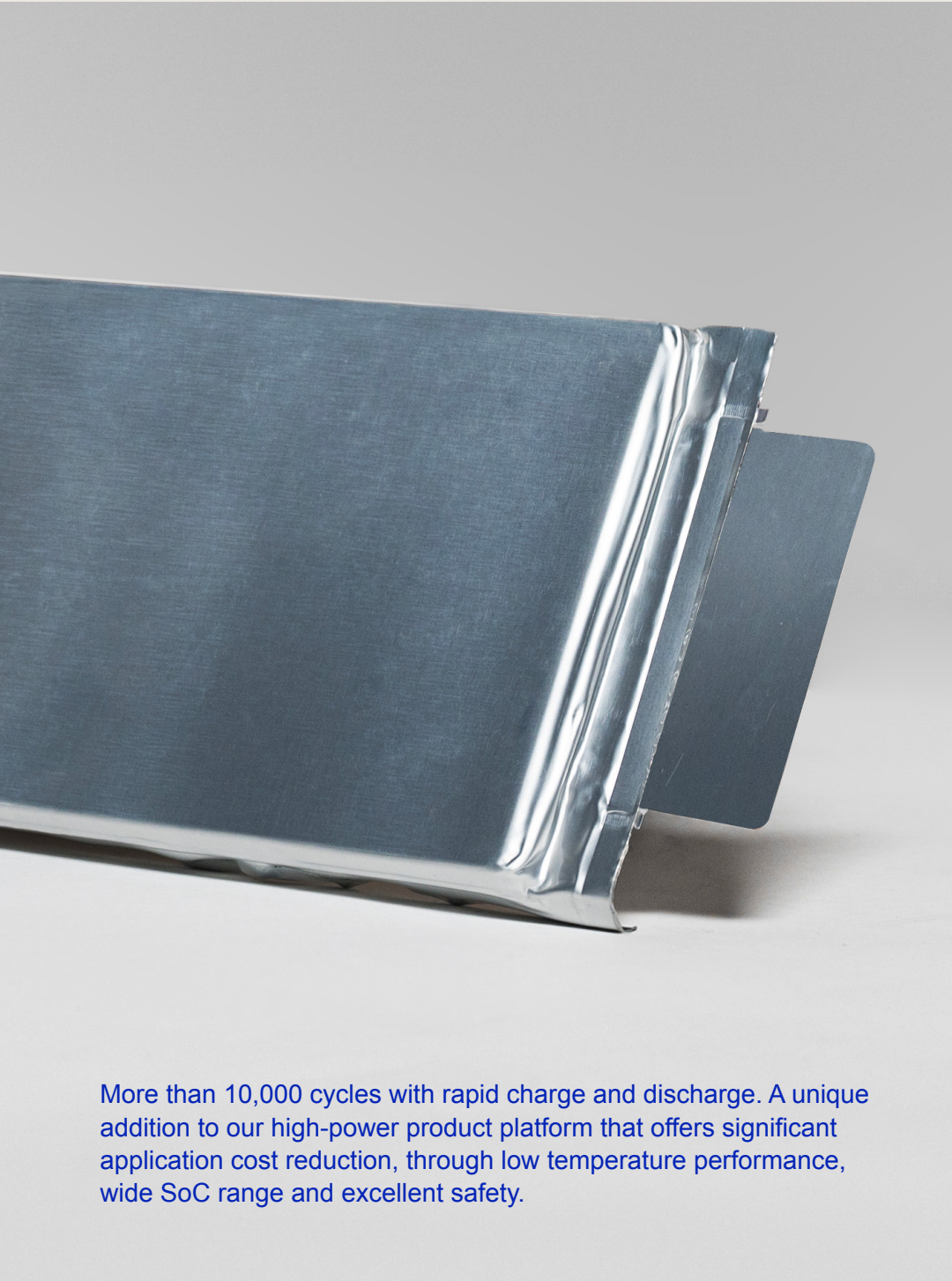


Battery Cell:



BePowered

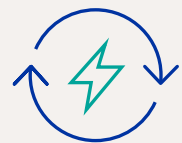
High-power. Long-lasting.



5C



1.4 kW/kg



>10,000 cycles

More than 10,000 cycles with rapid charge and discharge. A unique addition to our high-power product platform that offers significant application cost reduction, through low temperature performance, wide SoC range and excellent safety.

BEYONDER™

One Charge Ahead

High-power. Long-lasting.

100% DoD¹

BePowered with its wide DoD¹ is allowing utilization of the entire energy stored in the cell. This also corresponds to a wider voltage range requiring less cells to reach required system voltage, compared to traditional battery technology using a narrow SoC² range.

¹DoD – Depth of Discharge
²SoC – State of Charge

Generally used battery



60–80%

DoD

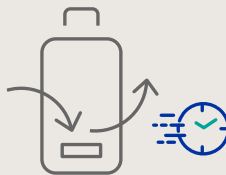


100%

Fast Charge/Discharge

BePowered product offer a continuous 5C charge and discharge capability corresponding to a 0–100% charged cell in only 10–12 minutes. With a potential of 15C peak power it provides an excellent value proposition for applications such as regeneration and acceleration in mobility, frequency regulation and power backup.

Generally used battery



¹SoC – State of Charge

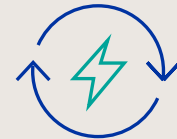
SoC¹



Long Cycle Life

BePowered offers more than 10K¹ cycles using 5C continuous charge/ discharge with 70% or more remaining capacity (EOL²).

¹Beyonder Lab test (100% DoD, 5C/5C)
²EOL – End of Life



>10,000 cycles



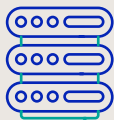
Sustainability

Beyonder has created the next generation of eco-friendly and energy-efficient batteries, and will be an enabler of the green electrical transition. Our vision is "To sustainability and Beyond", focusing on sustainable products from material sourcing, excluding scarce materials and production of cells with hydropower and renewables. With focus on electrification of industry and utilizing more compact battery systems our solutions contribute to lower carbon footprint.

Market Applications

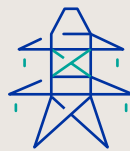
Power Backup/UPS

Power backup (UPS) requires high power in short periods. BePowered high power properties provides advantage of reduced size, footprint and cost of the overall battery system thereby offering a more sustainable solution while still maintaining the power backup requirements.



Renewables Grid

BePowered value proposition such as power and long cycle life offers unique value proposition in a market where penetration of renewables is increasing leading to unstable frequency. Offering potential for higher energy throughput over lifetime it makes BePowered as an excellent choice for ancillary services such as frequency regulation and balancing mechanism.



Maritime

BePowered enables electrification of short distance vessels where fast charge, long cycle life and safety are essential. Providing reduced size and footprint lower battery system weight is achieved. High number of cycles will reduce replacement costs and thereby offer more cost-effective solution over the lifetime.



eMobility (AGV/Forklift)

BePowered high power and long cycle life enables electrification of short distance mobility applications offering more optimized and costeffective solutions. In addition to excellent thermal characteristics during cycling, BePowered is suitable for usage in small enclosed spaces limiting cooling requirements.



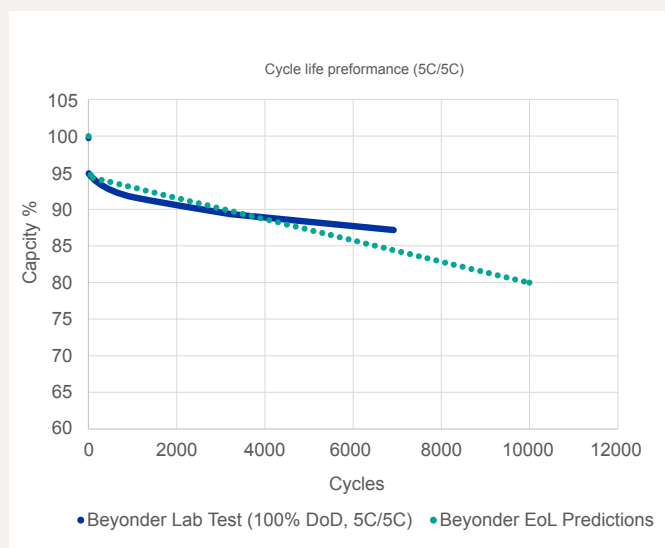
One Charge Ahead



Specifications

Rated capacity (1C, Ah)		31.0
Nominal voltage (V)		3.02
Rated energy (1C, Wh)		93.6
Rated voltage window		2.0–3.6
Max. continuous current (A)		155.0
Peak current, <30s (A)		465
Normalized discharge rate capability (%)	1C	100
	5C	>92
	10C	>87
	15C	>85
Specific energy (1C, Wh/kg)		110
Specific power, 1cyc. max. (15C, kW/kg)		1.4
Cycle life (70% SOH @5C)		>10,000
Temperature window	Operating	-10 ~ 60
	Storage (30% SOC)	-40 ~ 65
Weight (g)		885
Dimensions (L x W x T, mm) excl. tab		310.0 x 113.0 x 13.5

Cycle Life Performance (5C/5C)



Testing and certification



IEC 62619



RoHS



REACH

UN38.3

UN 38.3