

HYUNDAI

BALANTY BLT5.1-1C



GENUINE PRODUCT OF
HYUNDAI CORPORATION

BALANTY

Powered by HYUNDAI

-  Leading brand with 8000 life cycles
-  1 C Continuous Rate of Discharge
-  7 Years Replacement Warranty



Model: BLT5.1-1C
51.2V-100AH
≥8000 cycles



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BLT5.1-1C is built for residential and small commercial energy storage. It supports parallel connection of up to 50 units, offering a scalable capacity from 5.12 kWh to 256 kWh. With a 1C discharge rate, high cycle durability, and long service life, it provides reliable, worry-free power for everyday use.

The images shown are for illustration purposes only and may not be an exact representation of the product.

Brand Assurance: Hyundai Genuine Mark



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Quality Certification

To further strengthen consumer trust and confidence, all BALANTY products prominently feature the distinctive Hyundai Genuine Mark. This official certification mark serves as definitive proof that the product represents a genuine offering from Hyundai Corporation Holdings, meeting the highest standards of quality, performance, and reliability.

The Genuine Mark is consistently applied across all products, packaging materials, and marketing communications, creating a unified brand experience that consumers can immediately recognize and trust.

This mark provides comprehensive assurance to consumers regarding authenticity, superior quality, and long-term reliability, while reinforcing Hyundai's distinguished global reputation for excellence and innovation in energy solutions.

FEATURES AND ADVANTAGES



Flexible Expansion

Connect up to 50 units in parallel, with a scalable capacity from 5.12 kWh to 256 kWh



1C Discharge

Delivering power to multiple loads simultaneously, ensuring uninterrupted electricity supply



Easy Installation

Compatible with wall-mounted, floor-mounted, stacked and rack-mounted setups for efficient space utilization



Long-term Reliability

Built with LFP cells, delivering 8000+ cycles backed by a 7-year warranty



All-round Safety

Built-in short-circuit protection and surge resistance for safe, reliable operation

TECHNICAL SPECIFICATION

Spec / Model	BLT5.1-1C
Battery Type	LifePO4
Nominal Battery Energy	5.12 kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8~57.6V
Recommended Charge & Discharge C Rate	0.5C
Maximum Discharge C rate	1C
Recommended Charge/Discharge Current	50A
Max. Charge/Discharge Current	Charge 75A Discharge 100A
Peak Discharge Current	110A(15s)
Depth of Discharge (DOD)	90%
Net Weight	49.9kg
Dimension[W/D/H](mm)	558/545/150
Charging Temp. Range	0~55°C/-20~55°C (with heating function)
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/RS232
Cycle Life*	≥8000 Cycles / 7 Years
Protection Level	IP20
WIFI Module	Optional
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3
Compatible Inverters	SMA/Schneider/Victron energy/Ingeteam/Solis/GoodWe/Growatt/Soplanet/Luxpower/DEYE/Voltronics etc.

* Test conditions: 0.2C Charging & Discharging. @25°C, 90% DOD

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Information might be subject to change without notice during product improving.