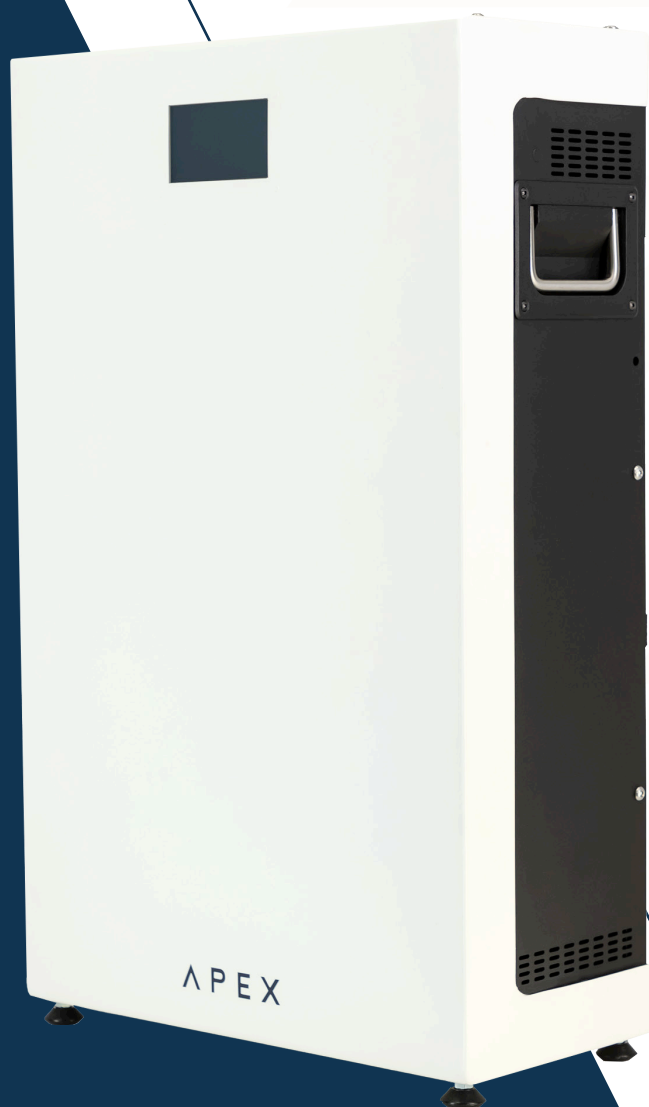


APEX



B12K

11.7KWH 51.2V
Datasheet

12KWH Lithium Battery

Lithium-Ion Energy storage for residential and light commercial applications.

- Ideal for urban use in on or off-grid applications.
- Monitor and control your Apex B12K on any compatible browser.
- Compact and energy dense.
- State of the art BMS for cell and system management.

The APEX B12k Lithium Ion Battery is designed for use in demanding on and off grid applications. The stylish design, colorful display and small footprint make it at home in any setting. Designed with as top priority, the BMS manages all aspects of the device, including temperature, current, multiple voltages and more. Making use of APEX's renowned FET Block technology, the B12k's robust protection systems can connect and disconnect the battery from loads or supplies when it needs to with reliability and safety.

Parameter	Specification
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GENERAL PARAMETERS

Nominal Voltage	51.2V DC
Total Capacity (When New)	11.7kWH
Available Capacity (When New)	> 11kWH
Maximum Charge Current	230A
Maximum Charge Current	230A
Max. Charge C-Rate:	1C
Max. Discharge C-Rate:	1C
DC Connection	2 x M10 brass stud terminals
Storage SoC	30 - 50%
Transportation SoC	30 - 50%
Chemistry	LFP
Life Expectancy	> 7000 cycles @ 1C, 90% DOD, 25°C
Performance Warranty	> 6000 cycles @ 1C, 90% DOD, 25°C, min 70% SOH.
	10 Years

COMMUNICATIONS

Network Connection	1 x Ethernet, RJ45
CAN Connections	2 x RJ45 (2 separate busses)
Remote Updates (Firmware Over The Air)	Ability to update firmware remotely

MECHANICAL SPECIFICATIONS

Dimensions (Length X Breadth X Depth)	450mm x 730mm x 220mm
Cooling	Natural Convection
Weight	100kg
Ingress Protection	IP20
Terminal Access	Removable cover

INSTALLATION SPECIFICATIONS

Mounting	Vertical only
Environment	Indoor use only. Not for outdoor installation.
Method	Floor standing only

ENVIRONMENTAL CONDITIONS

Maximum Permissible Ambient Temperature Range	0°C to +45°C
Relative Humidity	0 % - 80% non-condensing
Operating Altitude	0...2000m

DEVICE SAFETY

Device Over-Temperature Shutdown	BMS over temperature and cell overtemperature
Cell Over And Under Voltage Protection	Yes
Overcurrent Protection	Software, Fuse

USER INTERFACE

On Device	Color LCD
Remote Interface	Web browser