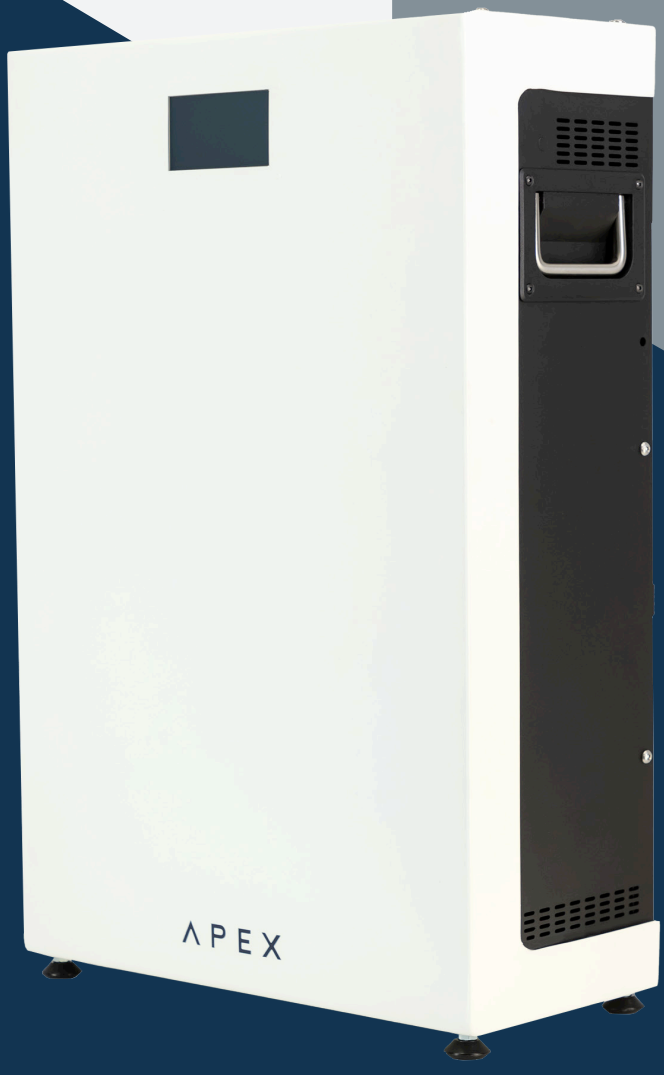
APEX

B12K
11.7KWH 51.2V
LITHIUM BATTERY



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 managment.

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 safety 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.

TECHNICAL SPECIFICATIONS

	Parameter	Specification
General Parameters:	Nominal Voltage	51.2V DC
	Total Capacity (When New)	11.7kWH
	Available Capacity (When New)	> 11kWH
	Maximum Charge Current	230A
	Maximum Discharge 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 Permissable Ambient Temperature Range	0°C to +45°C
	Relative Humidity	0 % - 80% non-condensing
	Operating Altitude	0...2000m

Device Safety Features:	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