VAAKU UPS™

A Smart Lithium UPS

R - 62004928

Designers, Developers & Manufacturers of Lithium UPS, Inverters, Batteries & BMS (Battery Management System)

GSTIN : 29ABLCS9328J1ZJ

Smart Lithium Battery in-built UPS

Lithium Batteries & Inverters

Battery Management System (BMS)

www.vaakuups.com

VAAKU UPS™
A Smart Lithium UPS

We are Vaaku UPS

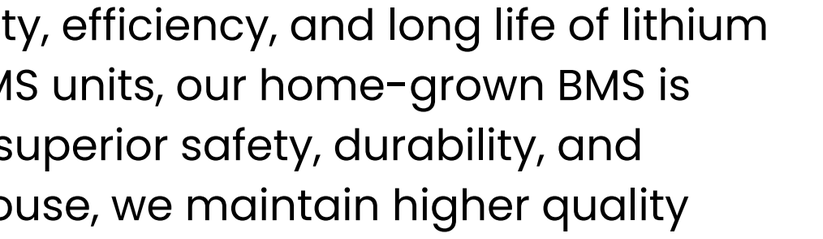
Sri Adi Ilkshvaaku Energy Private Limited specialises in building Lithium UPS systems, catering to the needs of uninterrupted power in our modern, interconnected world. We formed the **“Vaaku UPS - A smart Lithium UPS”** to revolutionise the power backup experience, through the ground-breaking Lithium-ion technology that keeps transforming the power backup solutions, offering lighter, more efficient, and longer-lasting alternatives compared to traditional, heavy, bulky, and regularly attention-demanding lead-acid batteries.

We began our journey in 2018 as a power electronics embedded startup, working on a battery management system for lithium batteries. From those humble beginnings, we have grown to become one of India’s first & finest Designers, Developers, & Manufacturers of Smart Lithium UPS and Inverters.

Our very foundation is rooted in the **"Make in India, Make for the World”,** and we are proud to announce that, except for a few critical components, every part of our technology is designed, developed, and built in India, which is tested, tried, and trusted by thousands of happy customers over the years. Today, our indigenous, cutting-edge solutions are redefining the power backup experience — delivering clean energy and seamless continuity, with a diverse range of models to meet every power need.

At Vaaku UPS, we take pride in our in-house Research & Development Centre, where innovation drives everything we do. Our team designs and builds advanced Battery Management Systems (BMS) that ensure the safety, efficiency, and long life of lithium batteries. Unlike many others who rely on imported BMS units, our home-grown BMS is specially engineered for Indian conditions, offering superior safety, durability, and compatibility. By keeping this critical technology in-house, we maintain higher quality standards, faster service support, and long-term reliability, giving our customers a level of trust and performance that imported systems cannot match.

We thrive by serving the customers' needs. Their needs inspire us to think, innovate & design machines that bring futuristic solutions. Our lithium UPS and inverters, along with our home-grown Battery Management Systems (BMS), are innovations that have evolved out of this very process. We sincerely thank all our customers, dealers, and associates for their trust & unwavering support in this journey.



Ram Kumar iikshvaaku
(Founder & CEO)

VAAKU UPS™
A Smart Lithium UPS

Smart Lithium Battery in-built UPS

A Smart Lithium Battery In-built UPS is the future of power backup technology that combines efficiency, intelligence and reliability in a single compact unit. Unlike conventional UPS systems that are traditionally heavy, bulky, a bit messy and regularly attention-demanding lead-acid batteries, this advanced solution uses high-performance lithium batteries built directly into the UPS.

V SMART 3000100 (3 KVA)
3000 VA / 2400 W / 25.6 V DC
100 Ah / 2560 Wh

V SMART 1500100 (1.5 KVA)
1500 VA / 1200 W / 12.8 V DC
100 Ah / 1280 Wh

V SMART 105060 (1 KVA)
1050 VA / 850 W / 12.8 V DC
60 Ah / 768 Wh

The result is a system that is lightweight, space-saving, and capable of delivering longer backup times with faster charging ability. With intelligent monitoring and control features, it ensures a consistent power supply for sensitive electronics and protection from fluctuations, outages, and interruptions.

The combination of Power & Aesthetics

Vaaku Smart Lithium Battery In-built UPS systems are not only compact and powerful, but also beautifully designed to complement modern interiors. They combine cutting-edge technology with elegance, aesthetic appeal—delivering uninterrupted power while enhancing the ambience of your home, office, Clinic, Restaurant, & others. With performance and beauty built into one, our UPS units stand as a true example of how technology can be both functional and stylish.

VAAKU UPS™
A Smart Lithium UPS

Smart Lithium Battery in-built UPS

V SMART 105060 (1 KVA)

A compact power backup solution for home and small office needs.
With a 12.8VDC, 60Ah, and 768Wh capacity, this model is ideal for powering essential electronics such as Wi-Fi routers, PCs, LED TVs, security systems, and small medical or office equipment. It combines a lightweight design with fast charging and long battery life, ensuring reliable backup in compact spaces.

Dimensions	**16 (H) x 11 (W) x 10 (D) (inches)**
Weight	**21 Kg**
Capacity	**850 W / 1050 VA**
Full Load	**850 W**
DC Voltage	**12.8 V DC**
Battery Type	**Life PO4**
Battery Capacity	**60 Ah / 768 Wh**

INPUT

Input Voltage Range (Normal Mode)	**100V - 290V**
Input Voltage Range (UPS Mode)	**180V - 270V**
Frequency	**50Hz**
Change Over Time (UPS Mode)	**<12ms**

OUTPUT

Output Voltage (AC)	**220Vrms**
Frequency	**50Hz**
Waveform	**Pure Sine Wave**
Battery Charging	**15A**

Safeguard Features: Overload, Protection Over & Under Voltage, Battery Deep Discharging, Battery Over Charge & Over Temparature.

Portable: Lightweight and compact, it can be easily moved and placed anywhere

Plug, Play & Power: Simple to set up. Just plug it in and enjoy uninterrupted power instantly

Aesthetics: Powerful, yet decorative. Designed to blend beautifully with any living or workspace

Zero maintenance: With a long lifespan, it saves recurring costs compared to traditional systems

Clean Energy: Eco-friendly lithium technology ensures sustainable, pollution-free power

Peace of Mind: You will feel assured with reliable performance and consistent backup

VAAKU UPS™

A Smart Lithium UPS

We transformed UPS into a showpiece

1 KVA
Lithium Battery
in-built UPS

V SMART 105060

1050 VA / 850 W

12.8 V DC / 60 Ah/ 768 Wh

- **06 LED lights**
- **02 Fans**
- **01 TV**
- **01 Computer**
- **01 Laptop**
- **05 CCTV Cameras**

- **01 Mixer***
- **01 0.5 HP water pump***
- **01 Printer***

Fast charging 15 AMPS

66 MONTHS WARRANTY For Battery Pack

Battery life upto 10 years

36 MONTHS WARRANTY For Inverter

DSP Technology

High Performance

Pure Sine Wave

Eco Friendly

Zero Maintanance

Auto Restart

Conditions Apply *

VAAKU UPS™
A Smart Lithium UPS

Smart Lithium Battery in-built UPS

V SMART 1500100 (1.5 KVA)

1.5 KVA: A versatile mid-range UPS solution that bridges home and professional use. Featuring 12.8VDC, 100Ah, and 1280Wh capacity, it delivers dependable backup for desktops, workstations, POS systems, and entertainment setups. Compact yet powerful, it ensures uninterrupted productivity with faster recharge cycles and minimal maintenance.

Dimensions	**13 (H) x 10 (W) x 15 (D) (inches)**
Weight	**27.7 Kg**
Capacity	**1200 W / 1500 VA**
Full Load	**1200 W**
DC Voltage	**12.8 V DC**
Battery Type	**Life PO4**
Battery Capacity	**100 Ah / 1280 Wh**

INPUT

Input Voltage Range (Normal Mode)	**100 V - 290 V**
Input Voltage Range (UPS Mode)	**180 V - 270 V**
Frequency	**50 Hz**
Change Over Time (UPS Mode)	**<12 ms**

OUTPUT

Output Voltage (AC)	**220Vrms**
Frequency	**50Hz**
Waveform	**Pure Sine Wave**
Battery Charging	**25A**

Safeguard Features: Overload, Protection Over & Under Voltage, Battery Deep Discharging, Battery Over Charge & Over Temparature.

Portable: Lightweight and compact, it can be easily moved and placed anywhere

Plug, Play & Power: Simple to set up. Just plug it in and enjoy uninterrupted power instantly

Aesthetics: Powerful, yet decorative. Designed to blend beautifully with any living or workspace

Zero maintenance: With a long lifespan, it saves recurring costs compared to traditional systems

Clean Energy: Eco-friendly lithium technology ensures sustainable, pollution-free power

Peace of Mind: You will feel assured with reliable performance and consistent backup

1.5 KVA
Lithium Battery in-built UPS

V SMART 1500100

1500 VA / 1200 W

12.8 V DC / 100 Ah/ 1280 Wh

- 08 LED lights
- 03 Fans
- 01 TV
- 02 Computers
- 01 Laptops
- 07 CCTV Cameras

- 01 Air Cooler*
- 01 Mixer Grinder*
- 01 Refrigerator*
- 01 0.5 HP water pump*
- 01 Printer*

DSP Technology

High Performance

Pure Sine Wave

Eco Friendly

Zero Maintanance

Auto Restart

VAAKU UPS™

A Smart Lithium UPS

We transformed UPS into a showpiece

Fast charging up to 25 AMPS

66 MONTHS WARRANTY For Battery Pack

Battery life upto 10 years

36 MONTHS WARRANTY For Inverter

Conditions Apply*

VAAKU UPS™
A Smart Lithium UPS

Smart Lithium Battery in-built UPS

14"

V SMART 3000100 (3 KVA)

3 KVA: A heavy-duty UPS designed for larger setups, critical IT equipment, and professional applications. With 25.6VDC, 100Ah, and 2560Wh capacity, it provides robust backup for multiple devices such as servers, high-performance computers, small industrial equipment, and medical instruments.

Dimensions	**13 (H) x 13 (W) x 17 (D) (inches)**
Weight	**44.3 Kg**
Capacity	**2400 W / 3000 VA**
Full Load	**2400 W**
DC Voltage	**25.6 V DC**
Battery Type	**Life PO4**
Battery Capacity	**100 Ah / 2560 Wh**

INPUT

Input Voltage Range (Normal Mode)	**100V - 290V**
Input Voltage Range (UPS Mode)	**180V - 270V**
Frequency	**50Hz**
Change Over Time (UPS Mode)	**<12ms**

OUTPUT

Output Voltage (AC)	**220Vrms**
Frequency	**50Hz**
Waveform	**Pure Sine Wave**
Battery Charging	**25A**

Safeguard Features:	Overload, Protection Over & Under Voltage, Battery Deep Discharging, Battery Over Charge & Over Temparature.

Portable:
Lightweight and compact, it can be easily moved and placed anywhere

Plug, Play & Power:
Simple to set up. Just plug it in and enjoy uninterrupted power instantly

Aesthetics:
Powerful, yet decorative. Designed to blend beautifully with any living or workspace

Zero maintenance:
With a long lifespan, it saves recurring costs compared to traditional systems

Clean Energy:
Eco-friendly lithium technology ensures sustainable, pollution-free power

Peace of Mind:
You will feel assured with reliable performance and consistent backup

VAAKU UPS™

A Smart Lithium UPS

We transformed UPS into a showpiece

3 KVA
Lithium Battery in-built UPS

V-SMART 3000100

3000 VA / 2400 W

25.6 V DC / 100 Ah / 2560 Wh

- 10 LED Lights
- 07 Fans
- 01 TV
- 02 Computers
- 01 Laptops
- 10 CCTV Cameras

- 01 Air Cooler*
- 01 Mixer Grinder*
- 01 Refrigerator*
- 01 1 HP water pump*
- 01 Printer*

Fast charging up to 25 AMPS

66 MONTHS WARRANTY For Battery Pack

Battery life upto 10 years

36 MONTHS WARRANTY For Inverter

DSP Technology

High Performance

Pure Sine Wave

Eco Friendly

Zero Maintanance

Auto Restart

Conditions Apply*

VAAKU UPS™
A Smart Lithium UPS

Lithium Batteries & Inverters

Lithium batteries are transforming the way we look at power storage and backup. Compared to traditional lead-acid batteries, they are lighter, more efficient, faster to charge, and last significantly longer. When paired with advanced inverters, they provide uninterrupted, clean, and reliable power for homes, offices, and industries.

At Vaaku, we offer advanced LFP (Lithium Iron Phosphate) Battery Packs designed for both offline and online applications, ensuring safe, reliable, and long-lasting energy storage. Our LFP batteries are maintenance-free, fast-charging, and built to deliver consistent performance with superior safety, making them ideal for homes, offices, and critical applications.

Complementing this, our Smart Offline Inverter is engineered to provide seamless backup with high efficiency and intelligent control. Compact and user-friendly, it works perfectly with lithium technology to deliver clean and stable power whenever required. Together, the LFP Battery Pack and Smart Offline Inverter create a complete solution that is future-ready, eco-friendly, and cost-effective.

One of the biggest advantages of lithium inverters is their compatibility—they work seamlessly with solar power systems, ensuring maximum utilization of renewable energy. At the same time, many lithium-compatible inverters can also operate with lead-acid batteries, giving users flexibility during upgrades or transitions. This makes lithium battery and inverter solutions both future-ready and adaptable, supporting sustainable energy while also meeting present-day needs.

VAAKU UPS™

A Smart Lithium UPS

Lithium Batteries & Inverters

LFP (Lithium Iron Phosphate) Battery Pack for Offline UPS

An LFP (Lithium Iron Phosphate) Battery Pack for Offline applications is an energy-storage system that activates only during power outages, ensuring the uninterrupted operation of connected devices, unlike online systems that continuously interact with the power grid.

V AYAN 12100

- 100 Ah I 1280 Wh — Battery Capacity
- 12.8 V DC — DC Voltage
- 14.6 V — Charge Voltage
- 12 V — Under Voltage
- 14.6 V — Over Voltage
- 100 A — Max Discharge Current
- 50 A — Max Charge Current

V AYAN 12100, a 12.8V 100Ah LFP Battery Pack, a high-performance, long-life energy storage solution designed for offline backup applications such as home inverters, UPS systems, telecom equipment, industrial backup, and portable power systems.

Dimensions: 07 (H) x 13 (W) x 12 (D) (inches) 12 Kg

V AYAN 25100

V AYAN 25100, a 25.6V 100Ah LFP Battery Pack, is an offline backup power solution designed for reliable and efficient energy storage. With a total energy capacity of 2560 Wh, this battery delivers stable output for inverters, Solar storage units, and other backup applications.

Dimensions: 07 (H) x 13 (W) x 18 (D) (inches) 22 Kg

- 100 Ah I 2560 Wh — Battery Capacity
- 25.6 V DC — DC Voltage
- 29.2 V — Charge Voltage
- 20 V — Under Voltage
- 29.2V — Over Voltage
- 100 A — Max Discharge Current
- 50 A — Max Charge Current

V AYAN 38030

- 30 Ah I 1152 Wh — Battery Capacity
- 38.4 V DC — DC Voltage
- 43.8 V — Charge Voltage
- 30V — Under Voltage
- 43.8V — Over Voltage
- 30 A — Max Discharge Current
- 15 A — Max Charge Current

V AYAN 38030, 38.4V 30Ah LFP Battery Pack is a compact offline backup power solution designed for high-efficiency energy storage applications. With a total capacity of 1152 Wh, it provides stable and consistent power for inverters, UPS systems, telecom equipment, and other backup requirements.

V AYAN 38060

V AYAN 38060, 38.4V 60Ah LFP Battery Pack is a durable offline backup power solution designed for demanding energy storage applications. It delivers reliable and consistent power for inverters, UPS systems, telecom setups, and other critical backup environments.

Dimensions: 07 (H) x 20 (W) x 15 (D) (inches) 35 Kg

- 60 Ah I 2304 Wh — Battery Capacity
- 38.4 V DC — DC Voltage
- 43.8 V — Charge Voltage
- 30V — Under Voltage
- 43.8V — Over Voltage
- 60 A — Max Discharge Current
- 30 A — Max Charge Current

V AYAN 38100

- 100 Ah I 3840 Wh — Battery Capacity
- 38.4 V DC — DC Voltage
- 43.8 V — Charge Voltage
- 30 V — Under Voltage
- 43.8 V — Over Voltage
- 100 A — Max Discharge Current
- 50 A — Max Charge Current

V AYAN 38100, 38.4V 100Ah LFP Battery Pack is a long-lasting offline energy storage solution engineered for robust power backup applications. It provides stable and reliable energy suitable for inverters, UPS systems, telecom equipment, renewable energy storage, and other critical backup needs.

Dimensions: 07 (H) x 20 (W) x 15 (D) (inches) 36 Kg

VAAKU UPS™

A Smart Lithium UPS

Lithium Batteries & Inverters

LFP (Lithium Iron Phosphate) Battery Pack for Offline UPS

An LFP (Lithium Iron Phosphate) Battery Pack for Offline applications is an energy-storage system that activates only during power outages, ensuring the uninterrupted operation of connected devices, unlike online systems that continuously interact with the power grid.

V AYAN 51060

60 Ah I 3072 Wh
Battery Capacity

51.2 V DC
DC Voltage

58.4 V
Charge Voltage

40V
Under Voltage

58.4 V
Over Voltage

60 A
Max Discharge Current

30 A
Max Charge Current

V AYAN 51060, a 51.2V 60Ah LFP Battery Pack, is a high-efficiency offline energy storage solution designed for reliable backup power in demanding applications. It delivers stable and consistent output for inverters, telecom equipment, solar storage, and other critical backup environments.

Dimensions: 13 (H) x 15 (W) x 23 (D) (inches) 47 Kg

V AYAN 51100, a 51.2V 100Ah LFP Battery Pack, is a robust and high-capacity offline energy storage solution engineered for reliable and long-duration backup applications. It delivers consistent & stable power for inverters, UPS systems, solar energy storage & others.

Dimensions: 13 (H) x 15 (W) x 23 (D) (inches) 48 Kg

V AYAN 51100

100 Ah I 5120 Wh
Battery Capacity

51.2 V DC
DC Voltage

58.4 V
Charge Voltage

40V
Under Voltage

58.4 V
Over Voltage

100 A
Max Discharge Current

50 A
Max Charge Current

V AYAN 51100 (PARLELL)

100 Ah I 5120 Wh
Battery Capacity

51.2 V DC
DC Voltage

58.4 V
Charge Voltage

40V
Under Voltage

58.4V
Over Voltage

100 A
Max Discharge Current

50 A
Max Charge Current

V AYAN 51100 (Parallel), a LFP Battery Pack is a powerful energy storage solution designed for reliable offline backup and parallel scalability. It delivers stable and long-duration power suitable for inverters, UPS systems, renewable energy storage, and other critical applications.

Dimensions: 13 (H) x 15 (W) x 23 (D) (inches) 48 Kg

V AYAN 102100, 102.4V 100Ah LFP Battery Pack is a high-capacity, industrial-grade energy storage solution designed for powerful and reliable offline backup applications. It delivers long-duration, stable power for large inverters, renewable energy storage, & heavy-duty backup environments.

Dimensions: 14 (H) x 15 (W) x 31 (D) (inches) 98 Kg

V AYAN 102100

100 Ah I 10240 Wh
Battery Capacity

102.4 V DC
DC Voltage

116.8 V
Charge Voltage

80V
Under Voltage

116.8V
Over Voltage

100 A
Max Discharge Current

50 A
Max Charge Current

Vaaku LFP (Lithium Iron Phosphate) Battery Packs stand out as the most reliable and efficient choice for offline backup systems due to their unmatched safety, long cycle life, and stable performance. Their long lifespan—often exceeding 3,000 to 5,000 cycles—makes them far more durable and cost-effective over long-term use. LFP batteries deliver consistent voltage output, maintaining steady backup power for inverters, UPS systems, telecom setups, and solar storage with minimal performance drop. They also charge faster, support higher discharge currents, and require virtually no maintenance, making them ideal for mission-critical offline systems.

VAAKU UPS™

A Smart Lithium UPS

Lithium Batteries & Inverters

LFP (Lithium Iron Phosphate) Battery Pack for Online & Offline UPS

The LFP (Lithium Iron Phosphate) Battery Pack is an advanced energy storage solution designed to deliver stable, efficient, and long-lasting power for both Online and Offline UPS systems. Its superior $LiFePO_4$ chemistry ensures exceptional thermal stability, making it one of the safest battery technologies available for continuous and backup power applications.

V AYAN 73015 ON

- **15 Ah I 1104 Wh** — Battery Capacity
- **73.6 V DC** — DC Voltage
- **83.95 V** — Charge Voltage
- **57.5 V** — Under Voltage
- **83.95 V** — Over Voltage
- **15 A** — Max Discharge Current
- **7.5 A** — Max Charge Current

V AYAN 73015 ON is a high-efficiency LFP Battery Pack designed to deliver reliable and stable power for online UPS and backup applications. With a capacity of 15 Ah and 1104 Wh, it provides dependable energy storage suitable for mission-critical environments.

Dimensions: 13 (H) x 08 (W) x 11 (D) (inches) 20 Kg

V AYAN 73030 ON is a powerful and reliable LFP Battery Pack engineered for online UPS and critical backup applications. With a capacity of 30 Ah and 2208 Wh, it provides robust and long-duration energy support for high-demand systems.

Dimensions: 16 (H) x 08 (W) x 18 (D) (inches) 23 Kg

V AYAN 73030 ON

- **30 Ah I 2208 Wh** — Battery Capacity
- **73.6 V DC** — DC Voltage
- **83.95 V** — Charge Voltage
- **57.5 V** — Under Voltage
- **83.95 V** — Over Voltage
- **30 A** — Max Discharge Current
- **15 A** — Max Charge Current

V AYAN 73045 ON

- **45 Ah I 3312 Wh** — Battery Capacity
- **73.6 V DC** — DC Voltage
- **83.95 V** — Charge Voltage
- **57.5 V** — Under Voltage
- **83.95 V** — Over Voltage
- **45 A** — Max Discharge Current
- **22.5 A** — Max Charge Current

V AYAN 73045 ON is a high-capacity and robust LFP Battery Pack designed for online UPS systems and mission-critical backup applications. With a capacity of 45 Ah and 3312 Wh, it delivers extended backup power and consistent performance for demanding environments.

Dimensions: 16 (H) x 08 (W) x 18 (D) (inches) 30 Kg

V AYAN 73060 ON, with a capacity of 60 Ah and 4416 Wh, it delivers strong, reliable, and extended power support for demanding environments. Operating at a nominal 73.6 Vdc, the battery ensures safe, stable performance through built-in protection settings, including a 57.5 V under-voltage cutoff and an 83.95 V over-voltage/charge voltage limit.

V AYAN 73060 ON

- **60 Ah I 4416 Wh** — Battery Capacity
- **73.6 V DC** — DC Voltage
- **83.95 V** — Charge Voltage
- **57.5 V** — Under Voltage
- **83.95 V** — Over Voltage
- **60 A** — Max Discharge Current
- **30 A** — Max Charge Current

V AYAN 73100 ON

- **100 Ah I 7360 Wh** — Battery Capacity
- **73.6 V DC** — DC Voltage
- **83.95 V** — Charge Voltage
- **57.5 V** — Under Voltage
- **83.95 V** — Over Voltage
- **100 A** — Max Discharge Current
- **50 A** — Max Charge Current

V AYAN 73100 ON is a 73.6 V DC battery system with a capacity of 100 Ah (7360 Wh), designed for reliable high-performance energy storage. It operates safely within a voltage range that includes a maximum charge/over-voltage limit of 83.95 V and a minimum operating voltage of 57.5 V.

VAAKU UPS™

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Lithium Batteries & Inverters

LFP (Lithium Iron Phosphate) Battery Pack for Online & Offline UPS

An LFP (Lithium Iron Phosphate) Battery Pack for Offline applications is an energy-storage system that activates only during power outages, ensuring the uninterrupted operation of connected devices, unlike online systems that continuously interact with the power grid.

V AYAN 96015 ON is a compact yet efficient 96 V DC battery system with a capacity of 15 Ah (1440 Wh), engineered for stable performance in medium-power applications. It operates within a safe voltage window, featuring a maximum charge and over-voltage limit of 109.5 V and a minimum operating voltage of 75 V.

Dimensions: 13 (H) x 08 (W) x 11 (D) (inches) 21 Kg

V AYAN 96015 ON

- 15 Ah I 1440 Wh — Battery Capacity
- 96 V DC — DC Voltage
- 109.5 V — Charge Voltage
- 75 V — Under Voltage
- 109.5V — Over Voltage
- 15 A — Max Discharge Current
- 7.5 A — Max Charge Current

V AYAN 96030 ON

- 30 Ah I 2880 Wh — Battery Capacity
- 96 V DC — DC Voltage
- 109.5 V — Charge Voltage
- 75 V — Under Voltage
- 109.5 V — Over Voltage
- 30 A — Max Discharge Current
- 15 A — Max Charge Current

V AYAN 96030 ON is a robust 96 V DC battery system with a capacity of 30 Ah (2880 Wh), designed for dependable power delivery in higher-demand applications. It features a safe operating voltage range with a maximum charge and over-voltage limit of 109.5 V and a minimum voltage threshold of 75 V.

Dimensions: 16 (H) x 08 (W) x 18 (D) (inches) 23 Kg

V AYAN 96045 ON is a high-capacity 96 V DC battery system with 45 Ah (4320 Wh) of energy storage, engineered for applications that require strong and consistent power output. Offering a maximum charge and over-voltage limit of 109.5 V and a minimum operating voltage of 75 V.

Dimensions: 16 (H) x 08 (W) x 18 (D) (inches) 30 Kg

V AYAN 96045 ON

- 45 Ah I 4320 Wh — Battery Capacity
- 96 V DC — DC Voltage
- 109.5 V — Charge Voltage
- 75 V — Under Voltage
- 109.5 V — Over Voltage
- 45 A — Max Discharge Current
- 22.5 A — Max Charge Current

V AYAN 96060 ON

- 60 Ah I 5760 Wh — Battery Capacity
- 96 V DC — DC Voltage
- 109.5 V — Charge Voltage
- 75 V — Under Voltage
- 109.5 V — Over Voltage
- 60 A — Max Discharge Current
- 30 A — Max Charge Current

V AYAN 96060 ON is a powerful 96 V DC battery system with a substantial capacity of 60 Ah (5760 Wh), built to support high-demand energy applications with reliable performance. It maintains safe operation within a defined voltage range, featuring a maximum charge and over-voltage limit of 109.5 V and a minimum operating voltage of 75 V.

V AYAN 96100 ON is a high-performance 96 V DC battery system offering an impressive 100 Ah (9600 Wh) capacity, ideal for applications requiring long backup and strong power delivery. It operates safely within a defined voltage range, featuring a maximum charge and over-voltage limit of 109.5 V and a minimum operating voltage of 75 V.

V AYAN 96100 ON

- 100 Ah I 9600 Wh — Battery Capacity
- 96 V DC — DC Voltage
- 109.5 V — Charge Voltage
- 75 V — Under Voltage
- 109.5 V — Over Voltage
- 100 A — Max Discharge Current
- 50 A — Max Charge Current

VAAKU UPS™
A Smart Lithium UPS

Lithium Batteries & Inverters

Smart Offline Inverters

Vaaku Smart Offline Inverters are intelligently engineered power backup solutions designed to deliver seamless, reliable electricity during outages. Built with advanced offline UPS technology, these inverters automatically switch to battery mode the moment power fails, ensuring uninterrupted support for homes, offices, and small enterprises.

URJA 3750	**3500 VA** Apparent Power	**2800 W** Real Power	**36 V DC** DC Voltage
	Dimensions: 16 (H) x 13 (W) x 18 (D) (inches) 30 Kg		
URJA 6000	**5500 VA** Apparent Power	**4400 W** Real Power	**48 V DC** DC Voltage
	Dimensions: 16 (H) x 13 (W) x 18 (D) (inches) 38 Kg		
URJA 8000	**7500 VA** Apparent Power	**6000 W** Real Power	**72 V DC** DC Voltage
URJA 11000+	**10000 VA** Apparent Power	**8000 W** Real Power	**96 V DC** DC Voltage

They deliver stable, regulated output that prevents fluctuations, making them ideal for computers, routers, TVs, lighting, and a range of household or office equipment. Built on offline UPS technology, these inverters instantly activate during a power cut, ensuring that essential appliances and sensitive electronics continue functioning without interruption.

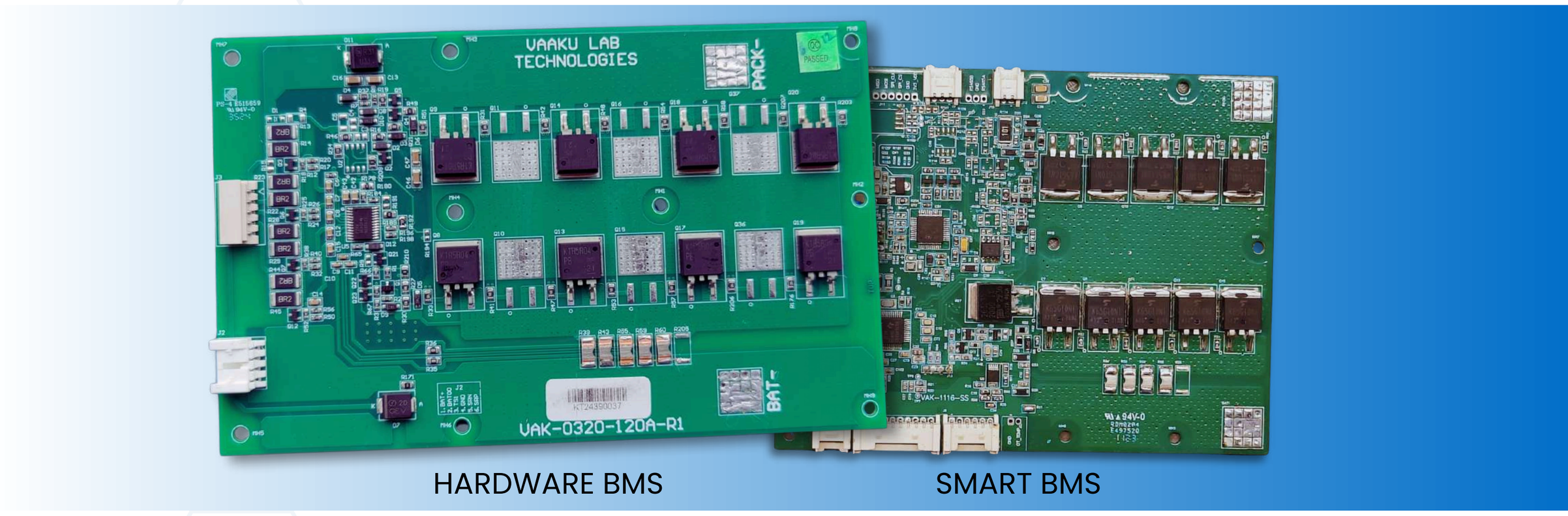
Their smart management system optimises charging efficiency, protects battery health, and ensures longer lifecycle performance, especially when paired with modern LFP (Lithium Iron Phosphate) battery packs. Built on offline UPS technology, these inverters instantly activate during a power cut, ensuring that essential appliances and sensitive electronics continue functioning without interruption.

VAAKU UPS™
A Smart Lithium UPS

Battery Management System (BMS)

What is a Battery Management System (BMS)?

A Battery Management System (BMS) is the intelligent control unit at the core of every modern lithium battery pack. Acting as the “brain of the battery,” it continuously measures and monitors critical parameters, including cell voltages, charging and discharging currents, and battery temperature. The BMS ensures each cell operates within its safe limits, manages cell balancing, and communicates essential data to the UPS or host system.



HARDWARE BMS SMART BMS

The role of a BMS is crucial for safe and reliable operation. It provides multi-layered protection against over-charge, over-discharge, over-current, and thermal risks that could otherwise damage the battery or connected devices. By optimising the charging process and maintaining a balance between cells, the BMS not only prevents hazards but also significantly extends the lifespan of the battery pack while ensuring stable performance. Simply put, without a standard BMS, lithium-ion systems cannot operate safely.

Why some BMS systems are vulnerable & even dangerous?

One of the common challenges in the market is the use of low-quality or generic BMS units, often imported from mass manufacturers in China. These systems tend to be less reliable because of limited protection accuracy due to low-precision components. In larger battery packs, they fail to balance cells effectively, as the minimal bleed current (30–100 mA) is inadequate. Over time, this leads to cell imbalance, reduced efficiency, and shorter battery life.

Other limitations of such generic BMS units include lack of support services, limited customization, and little to no after-sales assistance. Since many of these boards are designed as “one-size-fits-all,” they cannot be tailored to specific battery chemistries or applications. This creates risks for businesses and end-users who rely on dependable and safe battery solutions.

VAAKU UPS™
A Smart Lithium UPS

Battery Management System (BMS)

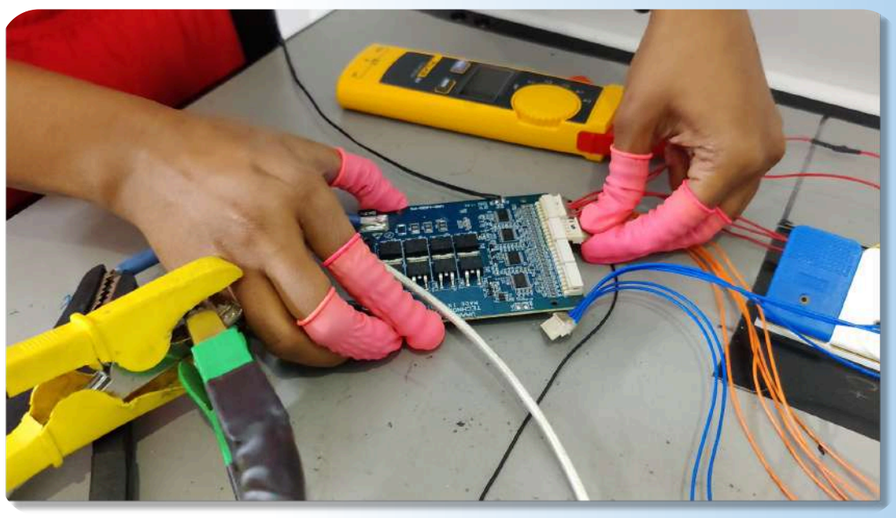
The current state of the BMS of other companies in India

Many Lithium Battery manufacturers in India use imported BMS in their products & some others even import the complete pre-assembled battery packs & sell them in India. The possibilities of having sub-standard BMS are high in both these cases & pose serious risks to both safety and performance. Such BMS units often lack precision in voltage, current, and temperature sensing, resulting in undetected faults, false protections or explosions in some cases.

This is where Vaaku (BMS) makes the difference

Vaaku BMS stands apart by offering customised and application-specific solutions. Designed in-house at our R&D centre, our BMS units are engineered to match the exact battery chemistry, capacity, and safety requirements of the application. Whether it is for electric vehicles, solar energy storage, UPS systems, or other industrial applications, Vaaku BMS ensures consistent, real-world performance backed by precision and durability.

Beyond design, Vaaku also provides long-term support and integration services. Our engineering team helps customers with wiring, system integration, and deployment to ensure seamless operation throughout usage. This commitment to technical support, combined with advanced customisation and reliability, makes Vaaku BMS a trusted solution for safety, performance, and long-term efficiency.



Vaaku's Battery Management System (BMS) has begun to receive the recognition it truly deserves, standing out for its reliability, innovation, and suitability for Indian conditions. With every milestone, it is making deeper inroads into the BMS market, proving its superiority over imported alternatives. Today, Vaaku is not only setting benchmarks in performance and safety but also preparing to collaborate with some of the biggest names in the industry. These strides reflect our commitment to excellence and our vision to position Vaaku as a trusted leader in advanced energy solutions.

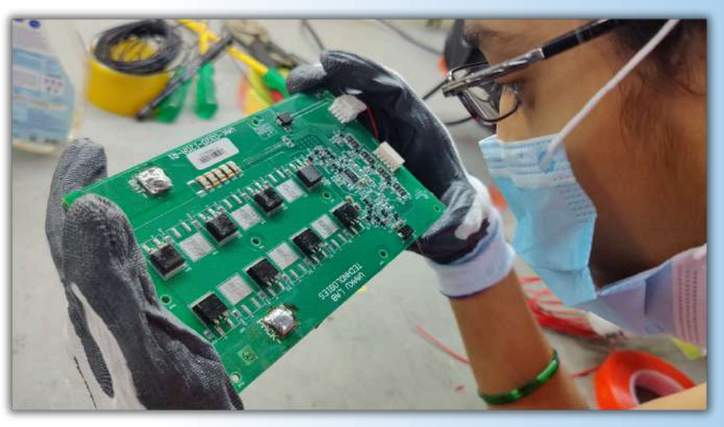
You can write to us (**sales@vaakulab.com**) or call or WhatsApp us (**+91 9741999285**)
for collaboration. Log on to **www.vaakulab.com** for more details.

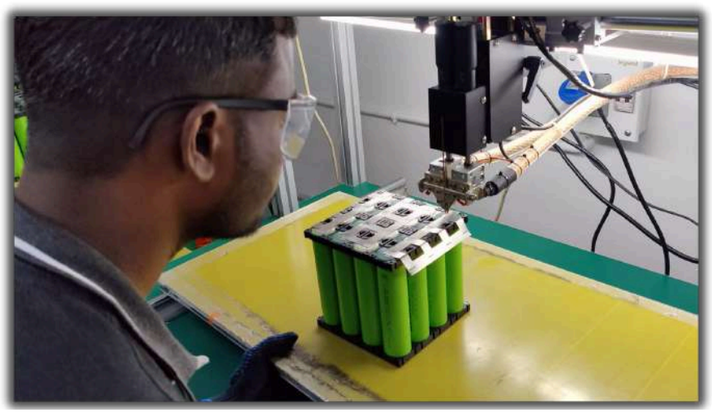
VAAKU UPS™

A Smart Lithium UPS

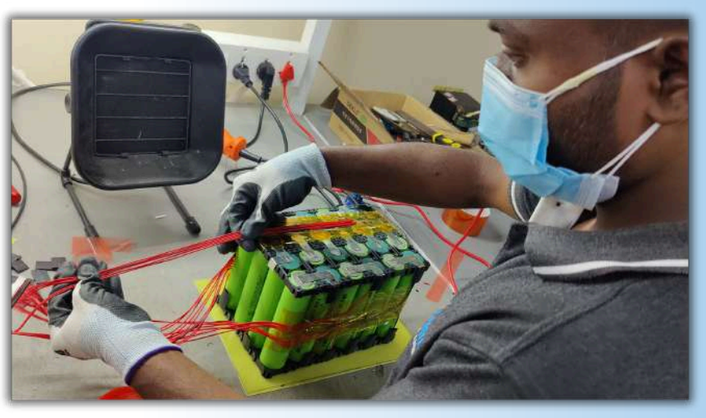
Our state-of-the-art Facility

At Vaaku UPS, we take pride in having a fully integrated manufacturing process at our Bannerghatta Workshop facility (Bannerghatta–Jigani Road). Every stage, from Product Design and R&D to Battery Pack Assembly, Cell Grading, Spot Welding, and Power Electronics Assembly, is carried out in-house under the supervision of skilled engineers and technicians. This ensures precision, consistency, and innovation at every step, while keeping our technology aligned with Indian power conditions and customer needs.









Our process extends beyond assembly to complete System Integration, Firmware and BMS Programming, Full Load Testing, and Rigorous Quality Assurance. Each unit undergoes a thorough Final Inspection, Packaging, and Dispatch only after meeting Vaaku's high standards of safety, performance, and reliability. By consolidating all these critical functions under one roof, we ensure superior control, faster service, and lasting trust in every product we deliver.

VAAKU UPS™
A Smart Lithium UPS

Our Commitment

Our products represent the outcome of this ongoing process of learning, evolving, and improving. These technologies are built with a clear purpose: to offer reliability, safety, and performance that truly make a difference in everyday life of our customers.

We genuinely listen to our customers' needs. Every challenge they share becomes an opportunity for us to rethink, refine, and reinvent. It is their real-world requirements that push us to innovate and design machines that are not just functional but thoughtfully engineered for the future.

As we look back at our journey, we acknowledge that none of this would have been possible without the trust, encouragement, and unwavering support of our customers, dealers, and associates. Their faith in our vision strengthens our commitment to deliver better solutions every single day.

VAAKU UPS™

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MAKE IN INDIA

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