

# 12V 100Ah Battery



Dear Customer,

Thank you for choosing the **Visiontek LFP Inverter Battery**. We truly appreciate your trust in our technology and your commitment to reliable, long-lasting power solutions.

Welcome to the Visiontek family—and thank you for choosing innovation that lasts. Your satisfaction is our top priority.

**A Product from An ISO 9001: 2015 & ISO 14001: 2015 Certified company**

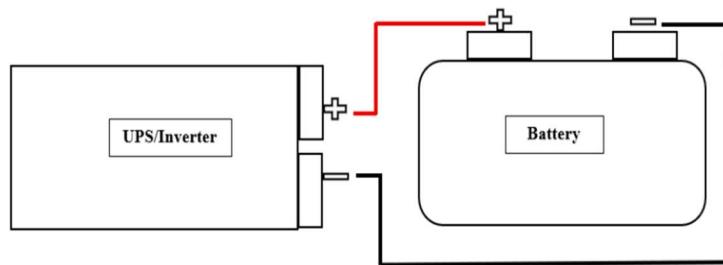
## Introduction

The **Visiontek LFP Inverter Battery** is engineered with advanced **Lithium Iron Phosphate (LFP)** technology to deliver reliable, long-lasting, and safe power for all your home. Designed for superior performance and durability, it offers faster charging, higher efficiency, and longer lifespan compared to traditional lead-acid batteries. With zero maintenance and consistent output, Visiontek LFP batteries ensure uninterrupted power and peace of mind for years to come.

## Specifications

Model	12V 100Ah
<b>Battery Data</b>	
Cell Chemistry	LFP
Cell Type	Prismatic
Nominal Battery Voltage (VDC)	12.8
Nominal Capacity (Ah)	100
Battery Configuration	4S1P
Operating Voltage(V)	10 - 14.6
Life Cycles (till 80% SOH)	>3500@80%DOD at 25°C
Standard Charging Current (A)	50
Standard Discharge Current (A)	50
Maximum Discharge Current (A)	80
Charging Temperature [°C]	0-45
Discharging Temperature [°C]	-10 - 60
Cont. discharge current(A)	80
Storage Temperature [°C]	25-45 at 50% SOC
Ingress Protection Class	IP65
Battery Dimensions(mm)	260 X 167 X 210
Battery Weight [kg]	10
<b>COMMUNICATION</b>	
Communication Bus	NONE
Compatibility	Amaron, Exide, Liv guard, Luminous, Okaya, Microtek, Su-Kam, LIVFAST and more up to 1100VA
<b>OTHER FEATURES</b>	
Battery Poles	M8X10 BRASS INSERT
Protections	Cell over voltage, Under voltage, Low temperature, High temperature, Short circuit, Reverse Polarity
Additional protection	NA
SOC indication	NA

## Electrical Connections



- Please follow the above line diagram while connecting the battery to UPS/Inverter
- Ensure that the mains and load are disconnected
- Connecting reverse will damage the UPS and as well as the battery
- Do not connect both battery (+) and battery (-) together which leads to short circuit of the battery

## Selection of modes on UPS/inverter

- Set Manual/Normal mode
- Select Eco/UPS mode based on the loads
- Set the below mode as per the availability:
  1. Li ion
  2. LC
  3. SMF

Note: Please select the above modes as per the availability. If Li ion is available do not consider the other modes, if it is not available select the next priority mode (LC or SMF).

- Set HC mode if current is <50A, If HC is not available choose MC/NC (<50A)



## Charge Test:

- Make sure there are no loose contacts in the entire circuit.
- Turn on the mains supply
- Charging LED blinks/remains ON, Mains LED blinks/remains ON in the UPS/Inverter
- Note down the charge voltage
- Note down maximum AC and DC current while charging
- Continue to run for one full charge cycle

## Discharge Test:

- Turn off the mains supply and turn on the load
- Note down the discharge voltage value
- Note down the maximum AC and DC load current.

## Compatible mode settings with different UPS/Inverters

UPS/Inverter	Model No	Power rating (VA)	Battery voltage (VDC)	Modes to be selected	Reference Image
Amaron	HB950A (AAM-HU-HB0000950)	880	12	Quick charge Narrow voltage	
Exide	GQP 12V1050VA	850	12	HC UPS	
Luminous	Zelio+ 1100	900	12	HC UPS SMF	
Okaya	ATSW 950	850	12	HC UPS SMF	
Luminous	ECO WATT NEO 1050	900	12	Local	
Microtek	Intelli Pure SINE WAVE 925 SW	925	12	Current: High Input voltage range: STD Voltage: Low	
Su-Kam	650VA torque	650	12	UPS SMF	
LIVFAST	FCS1125	900	12	REG H LC	
Exide	INVERTERZ STAR	900	12	HC UPS	
Luminous	Eco Volt Neo 1050	900	12	SMF/LOC	

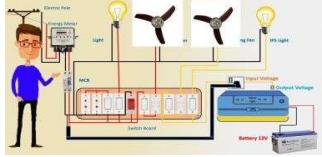
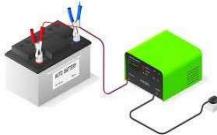
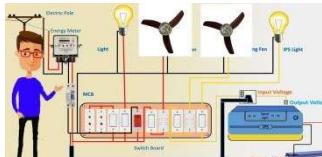
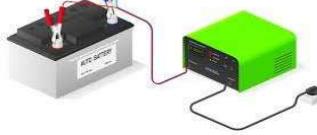
## Do's

- Ensure the battery is installed in a dry place where there is no direct contact of sunlight and water.
- Fix the lugs tightly using an appropriate tool (Screw gun/T-Spanner (13)/Torque Wrench).
- Ensure the UPS/Inverter is compatible with battery.
- Read the user manual carefully.
- Take necessary precautions like wearing hand gloves, safety shoes while giving electrical connections.
- Charge the battery frequently.

## Don'ts

- Don't connect battery if it is not compatible with the UPS/Inverter
- Don't install the battery where there is direct exposure of sunlight and water
- Avoid reversing the battery terminal connections.
- Don't select the tubular, flat plate mode on inverter side.
- Avoid direct contact of touching AC supply, while battery is in operation
- Don't use a damaged battery, a damaged UPS/Inverter
- Don't store a deep discharged battery not more than for 72 hours without charging
- Don't overload

## Troubleshooting

Error	Description	Solution	Image
Battery goes to 0V after connecting it to UPS	Short circuit	Disconnect the load and wait until the capacitors get discharged Connect + to + and – to –	
Deep discharge state	1. UPS/Inverter is not powering on with the battery alone 2. Battery voltage is not being detected by the UPS/Inverter	Press and hold the reset switch for 2 Seconds.	
Backup is not up to the mark	Desired backup time is not being achieved	Fully charge the battery Check for loose contacts	
Overload	UPS/Inverter displaying overload	Check for the load ratings of the UPS/Inverter and max discharge current of the battery	
Low battery	Inverter is displaying low battery indication	Charge the battery	

## **Warranty card**

<b>Model</b>	<b>S.no</b>
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### **Customer information**

Name: Mobile:

Invoice no: Date of purchase:

### **Vendor information:**

Name: Signature & Stamp:

Mobile: Date of purchase:

### **Warranty**

- We provide standard warranty of 5 years from the date of purchase. Keep your physical warranty card and invoice safe.
- Warranty is applicable for the goods purchased from the authorised dealer also only for the goods having manufacturing defects.
- In case of replacement remaining warranty will be transferred to the replaced goods. No new warranty will be issued.

### **Warranty Exception clause**

Any of the following situations will not be covered by our warranty policy:

- Damage incurred by nature/customer/any third party, Water ingress cases.
- Damage caused by faulty electrical systems, improper handling, servicing by unauthorized dealers/technicians, wilful abuse, destruction by fire, collision.
- Improper usage /additional fitment than specified by the manufacturer. Usage beyond the specification range.
- Breakage of container and cover found to have additives, dopes or anything other than battery degradation.
- Defective parts must be returned to company within 7 working days because they are the property of company.
- Removal, obliteration (or) alteration of original barcode/QR code sticker.
- In case of any battery model being discontinued by the company, company reserves the right to settle warranty with alternate/ equivalent model battery.
- Logistics cost for movement for repair of batteries from Client/Dealer to Visiontek service Centre or to plant under Client Scope and faulty batteries need to reach concerned location without any abuse/damaged conditions.
- Same Logistics for Movement of repaired or replacement of batteries from Visiontek Service Centre or Plant to client/Dealer Location under Visiontek Scope.

## Integration report

»VISIONTEK»		Battery Installation Data	
S. No	Description	Data	
1.	Date of installation		
2.	Place of installation		
3.	Customer name		
4.	Battery Model		
5.	Battery serial number		
6.	Inverter/UPS brand		
7.	Inverter/UPS Model		
8.	Inverter / UPS Capacity		
9.	Type of load		
10.	Installer Name		
11.	Installer Contact Number		
12	Warranty Start Date		
13.	Warranty End date		
14.	Charge Voltage (V)		
15.	Discharge Voltage (V)		
16.	Max. current while charging (A)	AC:	DC:
17.	Max. current while discharging (A)	AC load:	DC:
16.	Send Installation Front view photos	<input type="checkbox"/>	Tick the box after sending
17.	Send Installation Back view photos	<input type="checkbox"/>	Tick the box after sending
18.	Remarks / Observations		

Installer Signature

Dealer signature/stamp

Customer Signature

- Integration report must be filled after the installation
  - Fill all the required details in the integration report and attach the images
- Share the filled integration report to WhatsApp: **9966057222** Mail: **care@visiontek.co.in**

# » VISIONTEK »



User Manual



Visiontek Solar App

## Contact Address:

**LINKWELL TELESYSTEMS PVT.LTD**  
B-45&46; Electronic Complex, Kushtaguda,  
Hyderabad – 500062.  
Telangana, INDIA.  
**Ph: 040-66388235**

## For Customer Care Contact:

**Ph: 9966057222**  
Mail: [care@visiontek.co.in](mailto:care@visiontek.co.in)

## Regd Office:

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