

## THREE PHASE UPS BATTERY

A backup power source is crucial in case of a power outage. Shizen Energy has developed a novel approach to energy storage. The LFP-based rack solutions and ESS module are a great dynamic option that can be expanded in series or parallel, depending on the requirements. As the name implies, these batteries come with three times the power of a single phase UPS battery. These indigenous lithium powered battery packs are custom made to suit Indian climate conditions thus providing in every true sense to its "Made in India" marks.



## FEATURES:



Long Cycle Life



Extendable Backup



Customizable Size



Maintenance-Free



Intelligent BMS

## Models:

400V-20,100,150AH

IT Companies, Restaurants, Banking



MODEL		3UPS - 400V-20AH	3UPS - 400V-100AH	3UPS - 400V-150AH
<b>ELECTRICAL SPECIFICATIONS</b>				
1	Nominal Voltage	400V (LFP-125S)	400V (LFP-125S2P)	400V (LFP-125S3P)
2	Normal Capacity	50Ah	100Ah	150Ah
3	Total Energy (kWh)	20	40	60
4	Usable Energy (kWh) 3	18	36	54
5	Life Cycle	>2500 times (<0.5C)		
6	Internal Resistance	≤150mΩ @1kHz AC		
<b>STANDARD CHARGE</b>				
7	Battery operation temperature range @charging	0~45℃		
8	Normal charge voltage	456V	456V	456V
9	Allowed MAX charge current	50A@Battery Initial Temp 25±5℃		
10	Recommended charge current	≤25A		
<b>STANDARD DISCHARGE</b>				
11	Battery operation temperature range @discharging	-20~60℃		
12	Output voltage range	337~462 (462.5 ~ 525)		
13	Allowed discharge current	50A	1C	1C
14	Pulse discharge current	2C 3s	3C 3s	3C 3s
15	Discharge cut-off voltage	337 ~ 400	337 ~ 400	337 ~ 400
16	Cell overcharge protection	Overcharge detection voltage	3.65±0.025V	
		Overcharge detection delay time	Typical:1.0s	
		Overcharge release voltage	3.34±0.02V	
17	Cell over-discharge protection	Over-discharge detection voltage	2.7±0.02V	
		Over-discharge detection delay time	Typical:1.0s	
		Over-discharge release voltage	2.9±0.02V or charge release	
18	Over-current protection	discharge Over-current protection current	65±10A	
		discharge Over-current detection delay time 1	5S	
		discharge Over-current protection	75±10A	
		discharge Over-current detection	500ms	
		Charge OC protection current	55±10A	
19	Short protection	Short protection current	150±10A	
		Protection condition	Load short	
		Detection delay time	≤300us	
		Protection release condition	Charging release	
20	Temperature(T) protection	Charge high T protection	55±3℃	
		Charge high T recover	50±5℃	
		Discharge high T protection	65±5℃	
		Discharge high T recover	60±5℃	
		Charge low T protection	-5±2℃	
		Charge low T recover	0±5℃	
		Discharge low T protection	-20±5℃	
Discharge low T recover	-20±5℃			
21	Balance	Balance threshold voltage	3.45V	
22	Communication	It has RS485 and Modbus standard communication interface, it can real-time monitoring the capacity of		
23	Alarm	It has over-temperature, over charge, under-voltage, over-current, short circuit alarm function.		
24	Communication protocol	It has RS485 and Modbus standard communication interface, it can real-time monitoring the capacity of battery bank, the voltage,current, environment temperature, and charging/discharging current.		
<b>MECHANICAL SPECIFICATIONS</b>				
25	Dimension	customisable as per the product requirements		
26	Weight	customisable as per the product requirements		
<b>STORAGE</b>				
27	Storage Temperature & Humidity Range	Short: within one month	-20~+60℃, 5~75%RH	
		Long term: above one month	-10~+45℃, 5~75%RH	
28	Self-discharge rate	Residual capacity	≤2% per month;	
		Reversible capacity	≤1%per month;	

## Shizen Energy India Pvt Ltd

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## Safety and Precautions:

- ⚡ DO NOT use the battery in any appliance or purpose for which it was not intended.
- ⚡ DO NOT dispose of the battery in a fire or place the battery in water.
- ⚡ PLEASE consult SHIZEN ENERGY INDIA for any information regarding operating, modifying, or disposing of the battery pack.



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