

# ON THE NATIONAL MISSION OF **MADE IN INDIA**

*future*<sup>⚡</sup>  
Hi-Tech Batteries

We are committed to deliver world class energy solutions in a safe, reliable, efficient and environmentally sound manner.



**Providing Indigenous  
Green Energy Solutions**



**India's First Lithium  
Battery Manufacturing Unit**



**We Believe  
Renewable is the Future**



# Lithium Battery

(FR / LR Series)

LIFE **7+**  
YEARS









-  7+ Years Life
-  Upto 2 kW Capacity
-  Customizable Sizing
-  Robust

To meet the initiative of Govt of India and guidelines of MNRE to produce eco friendly and green batteries for Solar applications, we, being their channel partners, offer following standard Lithium ion and Lithium phosphate made in India batteries.

Some standard packs are listed below and any other capacity can be developed or indigenously designed.

### SALIENT FEATURES

-  MNRE & BIS approved
-  Warranted for true capacity & performance
-  Light in weight, customizable sizing
-  No maintenance required
-  2000+ life cycles
-  Easy to install



### TECHNICAL SPECIFICATIONS

S.No	Description	160W			120W		
		FR051	LR032	LR156	FR108	LR157	LR183
1	Cathode Chemistry	LFP	NMC	NMC	LFP	NMC	NMC
2	Voltage (Vdc)	12.8	14.8	14.8	12.8	14.8	14.8
3	Capacity (Ah)	12.8	11	10.75	9.6	8.6	8
4	Energy (Wh)	164	163	160	121	127	119
5	Internal Resistance (mΩ)	≤80	≤120	≤110	≤120	≤135	≤150
6	Dimension (mm)	110x110x75	280x95x22	280x95x22	280x82x30	80x80x75	80x80x75
7	Weight (kg)	1.6	1	1	1.2	0.8	0.8
8	Current Rating (A)	5	4	4	3	3	3
9	Charge Voltage (V)	14.6	16.8		14.6	16.8	
10	Operating Voltage (V)	14.6 to 10	16.8 -11.2		14.6 to 10	16.8 -11.2	
11	Compatible Solar Panel (Wp)	60		40			
12	Life cycle (Nos.)	1500-2500	400-600	1500-1800	1500-2500	1500-1800	400-600

### SOME MORE STANDARD PACKS

S.No	Model	Chemistry	Voltage(V)	Capacity (Ah)	Energy (Wh)	Dimensions (mm)	Life Cycle (Nos)	Weight (Kg)
1	LR144	NMC	7.4	13.2	98	120 x 40 x 75	400-600	1
2	LR025	NMC	11.1	17.6	195	140 x 80 x 75		1.5
3	FR025	LFP	12.8	21	269	190 x 110 x 75	1500-2500	3
4	LR034	NMC	14.8	26.4	391	160 x 120 x 75	400-600	3
5	LR073	NMC	11.1	66	733	290 x 120 x 80		5.5
6	FR101	LFP	25.6	39	998	390 x 200 x 80	1500-2500	11.5
7	LR165	NMC	14.8	135	2000	160 x 300 x 160	400-600	15

### PROTECTION

-  IP 65 enclosure
-  Short Circuit
-  Reverse Polarity
-  Over voltage & current
-  Charge & discharge release



The future lies with  
**Future Hi-Tech**

We are certified for the essential parameters of the industry which includes:

ISO 9001 | ISO 14001 | ISO 18001 |  RoHS | CE | FCC

Further product qualify and some are certified :  
AIS / R-10 / R-100 / UN38.3 / UNR136 / UL2271 /  
UL2054 / UL2580

## Future Hi-Tech Batteries Ltd.



### Manufacturing Unit

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