



**LEADING
SINCE 1969**

LEADER

ENERGY TO PERFORM

Power of Every Homes

**INVERTER
BATTERY
@C20**



**HIGH ENERGY
DENSITY**



**LOW
MAINTENANCE**



**SUPER RUGGED
CONTAINER**



**DEEP CYCLE
DESIGN**

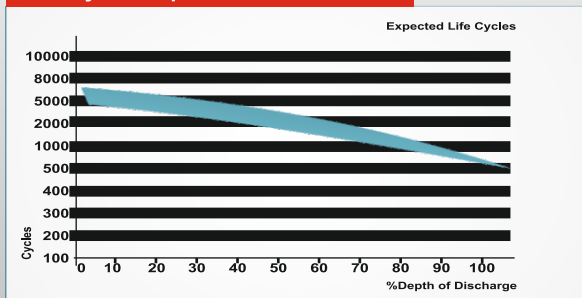
INDIA'S LARGEST INTREGATED BATTERY MANUFACTURING FACILITIES

Technical Specification

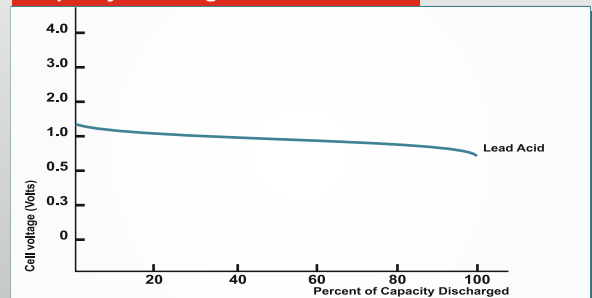
Sno	Model	Type	Ah @20±5	Battery Dimention				Weight ±3%	Charging Current	Battery Layout
				Length ±5	Width ±5	Height ±5	Height with float ±5			
1	LIST1250	ST80	50	365	190	260	295	22	5	L
2	LIST1350	ST100	75	410	175	285	310	28	8	L
3	LIST1450	ST150	120	505	220	290	310	39	12	L
4	LIST1600	ST150	135	505	220	290	310	41	13	L
5	LIST1800	ST150	150	505	220	290	310	43	14	L
6	LIST2000	ST150	165	505	220	290	310	46	15	L
7	LIJT2500	ST200	180	515	270	290	310	54	16	L
8	LITT15000	TT500	120	505	190	405	465	53	13	L
9	LITT16500	TT500	150	505	190	405	465	55	14	L
10	LITT18000	TT500	160	505	190	405	465	57	16	L
11	LITT21000	TT500	180	505	190	405	465	58	18	L
12	LITT24000	TT500	200	505	190	405	465	62	20	L
13	LITT27000	TT500	220	505	190	405	465	67	22	L
14	LITT30000	TT500	240	505	190	405	465	69	24	L
15	LIHTT35000	TT500	260	505	190	405	465	71	25	L
16	LIHTT38000	TT700	290	505	190	445	505	77	27	L
17	LIHTT42000	TT700	320	505	190	445	505	81	30	L

Electrical Performance

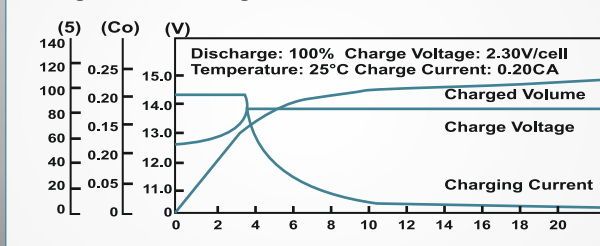
Life Cycle Graph At STC



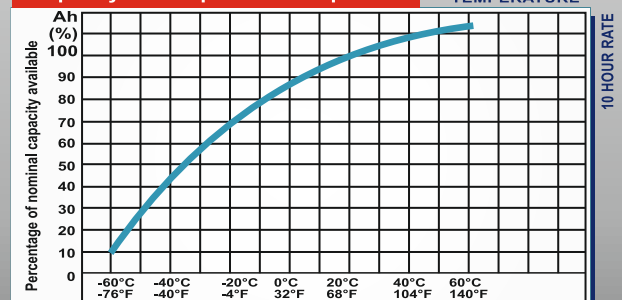
Capacity Discharge



Volume CHARGING CHARACTERISTICS (25°C)
Changed Control Voltage



Capacity To Temperature Graph



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**LEADING
SINCE 1969**

LEADER

ENERGY TO PERFORM

*Rise with sun
shine with savings*

**SOLAR
BATTERY
@C10**



HS IEC 61427-1: 2013

**DESIGN AS PER
IEC 61427 & IS 13369**



**HIGH CHARGE
ACCEPTANCE**



**LONG
LIFE**



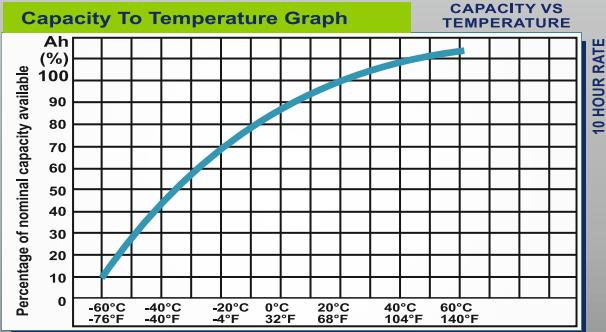
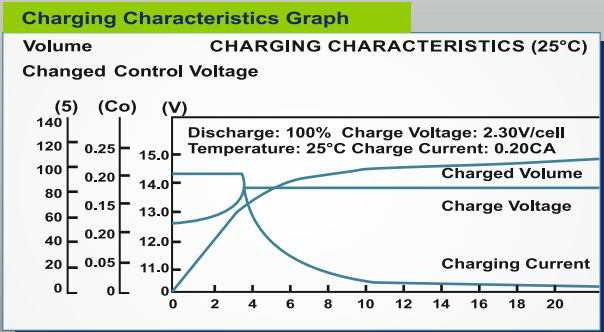
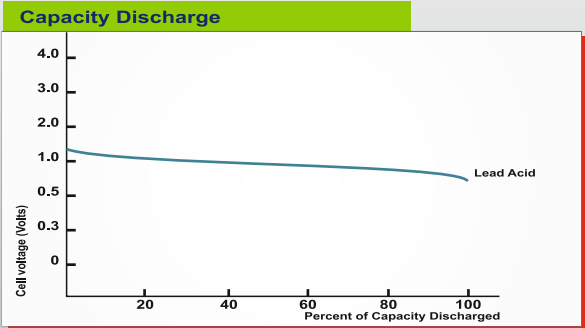
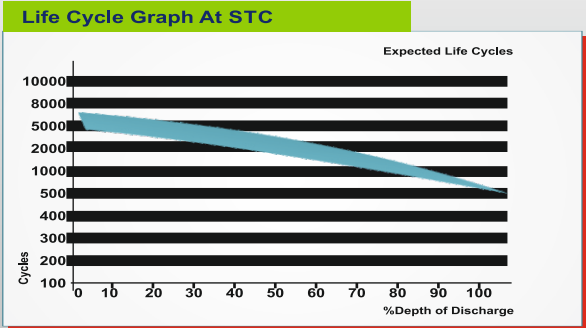
**EXTREMELY LOW
SELF DISCHARGE**

INDIA'S LARGEST INTREGATED BATTERY MANUFACTURING FACILITIES

Technical Specification

Sno	Model	Type	Ah @10±5	Battery Dimention				Weight ±3%	Charging Current	Battery Layout
				Length ±5	Width ±5	Height ±5	Height with float ±5			
1	LSXT500	ST50	20	260	170	230	245	14	2	L
2	LSXT700	ST100	40	410	175	245	270	23	4	L
3	LSJT1000	ST150	75	505	220	290	310	39	8	L
4	LSJT1350	ST150	100	505	220	290	310	41	12	L
5	LSJT1500	ST150	120	505	220	290	310	43	13	L
6	LSTT15000	ST150	135	505	190	405	465	55	14	L
7	LSTT16500	TT500	150	505	190	405	465	58	14	L
8	LSTT18500	TT500	180	505	190	405	465	60	16	L
9	LSTT22000	TT500	200	505	190	405	465	63	20	L
10	LSTT25000	TT500	220	505	190	405	465	67	22	L
11	LSTT27500	TT500	240	505	190	405	465	71	25	L
12	LSHTT32000	TT700	260	505	190	445	505	77	27	L
13	LSHTT35000	TT700	280	505	190	445	505	81	30	L

Electrical Performance



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LEADING
SINCE 1969

LEADER

ENERGY TO PERFORM

*Because your car deserve
more then just a battery*

**AUTOMOTIVE
BATTERY**



INDIA'S LARGEST INTREGATED BATTERY MANUFACTURING FACILITIES

TECHNICAL SPECIFICATION

Model	Ah	L	W	H	"Charging Current"	"CCA SAE (AT-18C)"	"RC (Minutes)"	Application	Layout
35B20R	32	195	127	225	3	43	43	Car	R
38B20R	35	195	127	225	3	53	53	Car	R
65D20R	60	260	172	225	6	110	100	Car	R
75T	75	300	172	230	8	145	145	Tractor	L
80D26R	80	300	172	230	8	145	145	Car/SUV	R
88T	90	410	172	230	9	175	160	Tractor	L
95D31R	90	410	172	230	9	175	160	SUV/ Comm.Vehicles	R
100T	100	410	172	230	10	182	182	Tractor	L
105D31R	100	410	172	230	10	182	182	Truck	R
LA120	120	500	180	245	12	220	215	Bus / Truck	L
LA135	135	500	220	245	13	230	230	Bus / Truck	L
LA150	150	500	220	245	15	280	280	Bus / Truck	L
LA165	165	520	273	245	16	310	300	Bus / Truck	L
LA180	180	520	273	245	18	350	325	Bus / Truck	L
LA200	200	520	273	245	20	390	390	Bus / Truck	L

*Specifications are under continuous improvement. Subject to change without notice.



FAST
RECHARGE



LEAK-RESISTIVE
DESIGN



MAINTENANCE
FREE



LONG LIFE
SPAN



EXCELLENT
CRANKING
POWER



SUIT HIGH
TEMPERATURE
APPLICATIONS

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**LEADING
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LEADER

ENERGY TO PERFORM

Low self discharge & long life

**SMF
LEAD ACID
BATTERY**



**ULTRA LOW SELF
DISCHARGING**



**HIGH GRADE LEAD
CALCIUM ALLOY
GRID FOR EXTENDED LIFE**



**QUICK DEEP
DISCHARGE
RECOVERY**



**ROBUST ABS
CASING**

INDIA'S LARGEST INTEGRATED BATTERY MANUFACTURING FACILITIES

SPECIFICATIONS CHART

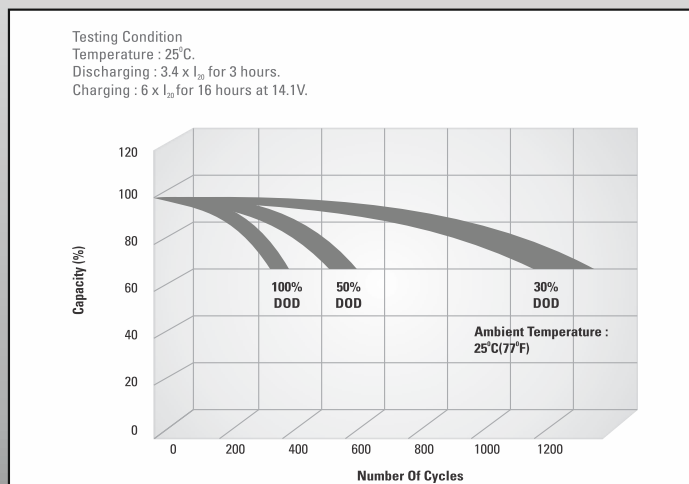
Type of Battery	Nominal Voltage (V)	Rated Capacity (Ah) at 27 °C.						Dimensions (mm)				Weight $\pm 5\%$ (Kg)
		20 hrs 1.75 V/cell	10 hrs 1.75 V/cell	3hrs 1.7 V/cell	1.5 hrs 1.7 V/cell	1 hrs 1.6 V/cell	30 mins. 1.6 V/cell	Overall Height (± 2)	Height upto lid top (± 2)	Length (± 1)	Width (± 1)	
LS7.5-12	12	7.5	6.9	5.5	5.3	4.5	3.7	100	94	151	65	2.40
LS 9-12	12	9	8.1	6.8	6.4	5.4	4.5	100	94	151	65	2.6
LS12-12	12	12	11.2	9.0	8.6	7.2	6.0	100	94	151	98	3.8
LS18-12	12	18	16.9	13.7	13	10.8	9.0	167	167	181	76	5.0
LS 26-12	12	26	24.0	19.5	18.7	15.6	13.0	179	179	178	124	8.8
LS42-12	12	42	38.5	31.5	30.2	25.2	21.0	181	181	201	165	13.9
LS65-12	12	65	60.0	48.6	46.8	39.0	32.5	181	181	350	166	20.2
LS75-12	12	75	69.0	56.2	54.0	45.0	37.5	183	183	391	166	23.0
LS84-12	12	84	76.4	63.0	60.5	50.5	42.0	235	235	407	173	30.0
LS100-12	12	100	91.0	75.0	72.0	60.0	50.0	235	235	407	173	32.5
LS120-12	12	120	109.0	90.0	86.4	72.0	60.0	239	239	452	172	38.0
LS150-12	12	150	136.5	112.5	108.0	90.0	75.0	250	250	536	186	46.8
LS200-12	12	200	182.0	150.0	144.0	120.0	100.0	250	250	536	250	64.8

*Specifications are under continuous improvement. Subject to change without notice.

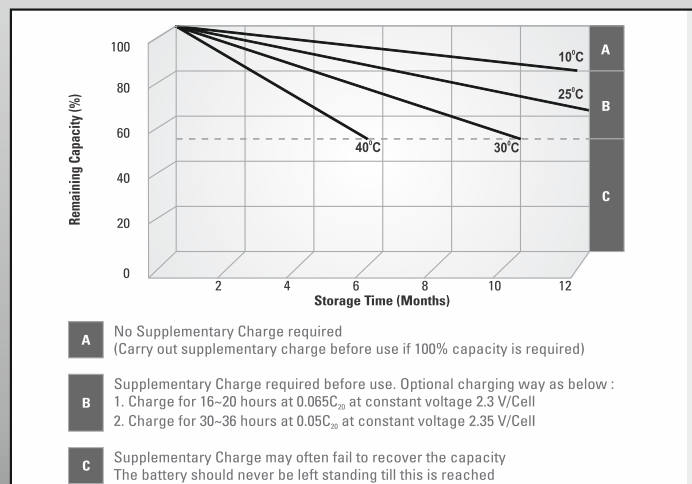
Charge Parameters		
Recharge voltages: Batteries to be charged in CC-CV mode only		
Recharge Voltage Type	Voltage settings per 12 V unit for ambient temperature 20-30°C	Current setting
Float	13.7 ± 0.1 V	Maximum: 30% of rated Ah
Boost	14.1 ± 0.1 V	Minimum: 10% of rated Ah
Cyclic	14.7 ± 0.1 V	
Temperature compensation (Reference 25°C)		FLOAT : -18mV / °C / 12 V unit CYCLIC : -30 mV / °C / 12 V unit

Product Details	
Operating Temperature Range	0°C-45°C
Recommended Operating Temperature	5°C-35°C
Recommended Storage Period	3-6 months (from date of Mfg.) at 20°C-30°C
Self-discharge per month	<3% of Rated Capacity at 25°C
Ah Efficiency	>90%
Wh Efficiency	>80%
Material of lid/Container	ABS-12V 7.5Ah-12V 26Ah PPCP-12V 42Ah-12V 200Ah **FRV0 option available

Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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