SMF VRLA BATTERIES

Huge demand for UPS systems in India has increased drastically over the years especially in service based sectors like Banking and Insurance, Health Care, IT and Hospitality. This in turn has led to large scale computerization and need for power back up or Uninterrupted Power Supply (UPS) systems.
Livsol manufactures revolutionary and specialized battery for UPS application to withstand huge loads; the batteries have a unique grid design which enhances high rate discharge performance, life cycle and deep discharge recovery. These batteries are a natural choice where ambient temperature is not very high.

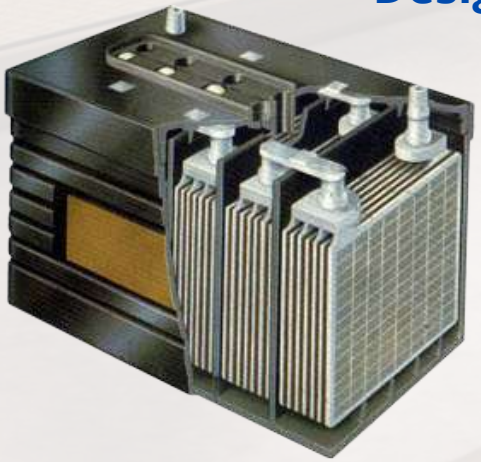
HIGH SPECIFIC ENERGY

DESIGN LIFE
10 YEARS @25OC

HIGH PURITY MATERIAL

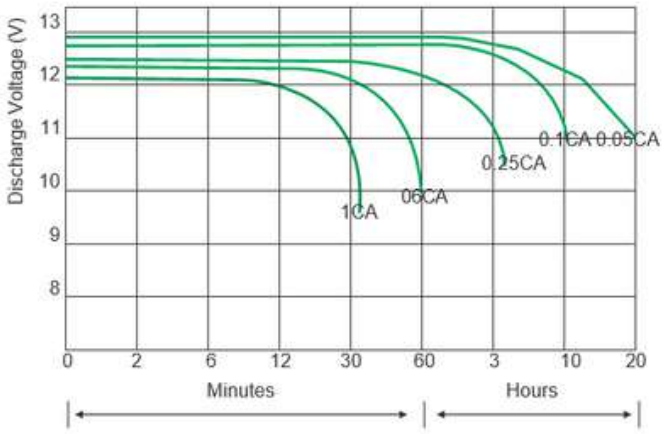
EXCELLENT CYCLIC PERFORMANCE

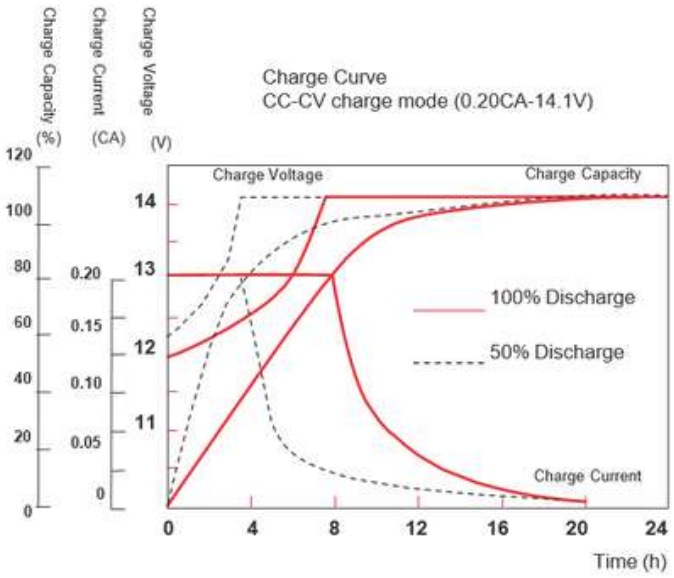
Design and Construction Features



- Proprietary Positive Grid Alloy
- Proprietary Positive Paste Composition
- Long Shelf Life above 6 Months
- Deep Discharge Recovery even after 7 days
- Fast Charging Capability Within 6-8 hours
- Superior High rate Performance at 50 to 60 Minute rate of Discharge

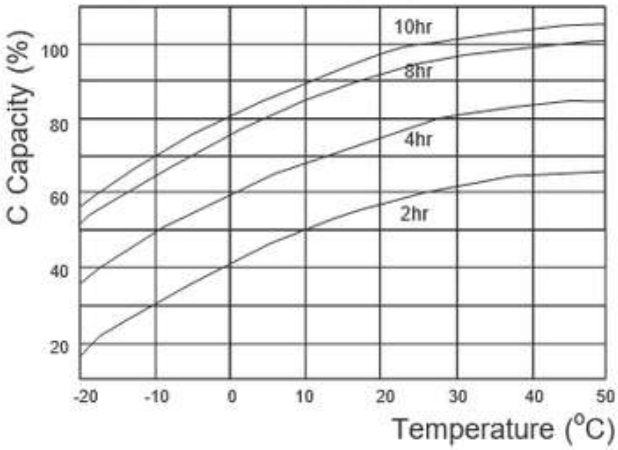
DISCHARGE AND CHARGING CHARECTERISTICS



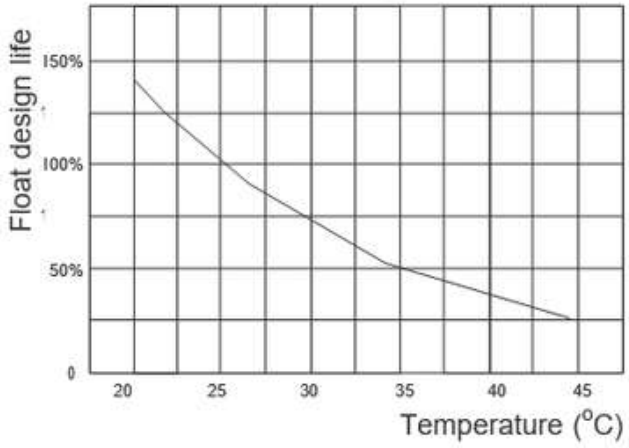


PERFORMANCE CHARECTERISTICS

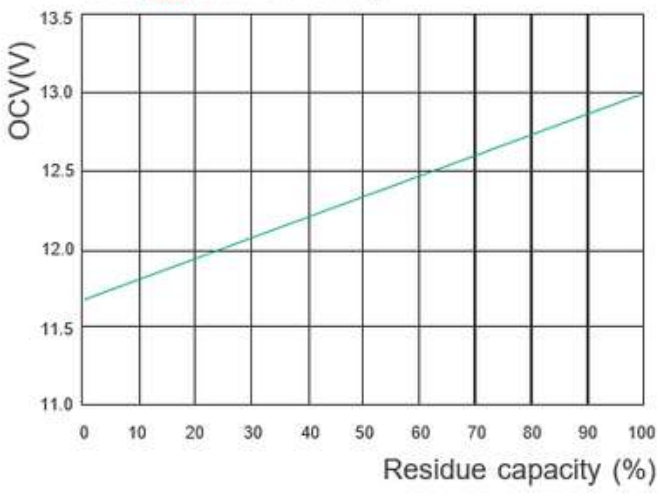
Temperature vs Capacity



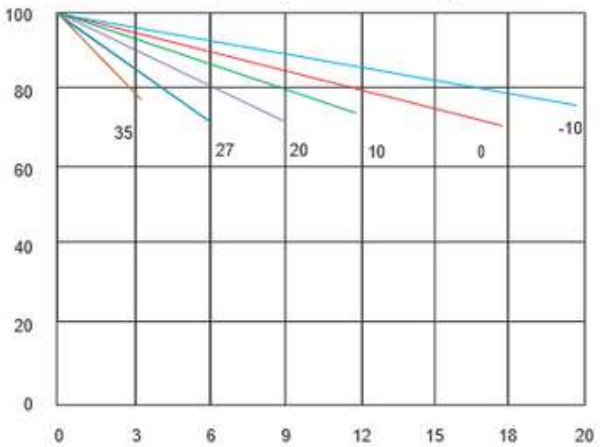
Temperature vs Design Life



OCV vs State of Charge



Residual Capacity vs Storage Time



LIVSOL
UNLIMITED POWER

TECHNICAL SPECIFICATIONS

Model	Nominal Voltage	Rated Capacity @C20 at 27°C (1-.50 EBV)	Dimensions		
			Length (±5mm)	Width (±5mm)	Height (±5mm)
LPSMF4212	12	42	198	167	172
LPSMF6512	12	65	350	167	174
LPSMF8012	12	80	330	172	223
LPSMF10012	12	100	330	172	223
LPSMF12012	12	120	407	173	240
LPSMF15012	12	150	520	240	222
LPSMF20012	12	200	520	240	222

***Also Available in 75Ah & 90Ah**

Electrolyte	Immobilized H^2 SO^4
Positive Plate Alloy	"Arsenic and Cadmium Free Pb-Ca-Sn Alloy
Positive Plate Type	Flat Pasted
Type of Connection	Bolted
Type of Separator material	Absorptive Glass Mat
Container Material	"ABS"
Recommended Charging	Constant Potential
Shelf life at 27°C	6 Months
Self Discharge	<1% per week
Float Charge Voltage	13.5V - 13.6V
Boost Charge Voltage	13.8V - 14V
Charging Time From 20% SOC to 90% SOC	6-8 Hrs
Operating Temperature Range	"0"°C to 50°C
Design Life at 27°C	10 Years
Cyclic Service Life (@ 27°C)	
At 20% D.O.D	1400 Cycles
At 50% D.O.D	650 Cycles
At 80% D.O.D	300 Cycles
Product Performance Confirms to	JIS C 8702