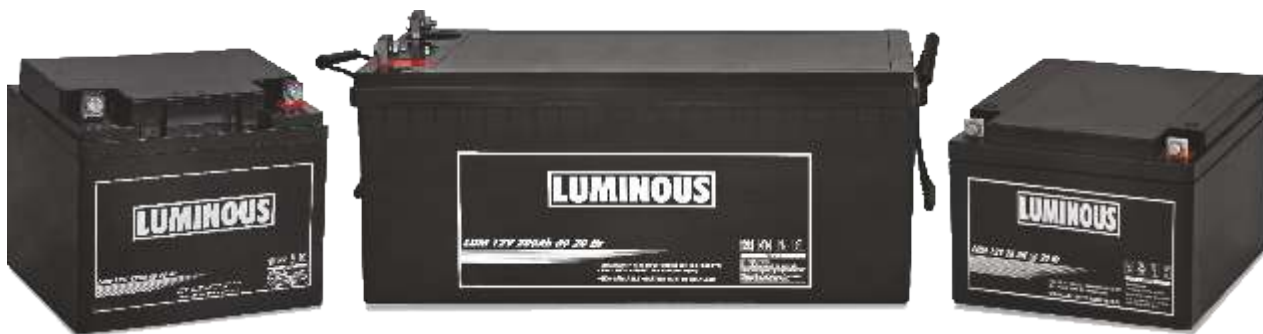


LUMINOUS



High convenience Sealed Maintenance Free Batteries from Luminous



For UPS, Solar and Telecom Applications

Sealed Maintenance Free/VRLA Batteries

Instructions

Charging

- Follow constant potential current-limited charging as specified
- Avoid parallel charging. If unavoidable, make maximum two parallel strings

Discharging

- The battery must be immediately recharged after discharge, especially if it has been over-discharged
- Do not keep the battery in a discharged condition for a long duration

Operation

- Avoid mixed use of batteries with different capacities and makes because the difference in characteristics can cause damage to the battery or equipment
- Do not use organic solvents to clean the batteries
- Do not install the batteries close to heat sources like direct sunlight or air condition exhausts etc.
- Do not short-circuit the batteries
- Do not solder battery terminals

Storage

- Ambient temperature for storage will be within the range of 20°C to 35°C
- Store battery in a dry and cool place
- During storage, recharge the battery once every 3 months for optimum performance and life

Technical Specifications

Applications:

UPS Systems, Emergency Lights, Fire Alarms & Security Systems, Telecom, Portable Emergency Lights, Solar Lanterns, Electronic Weighing Scales, etc. Power Stations & Sub-Station

Features:

1. AGM technology for efficient gas recombination
2. Rubber safety valve
3. Float or cyclic use
4. Ultra low self-discharge
5. Lead calcium alloy
6. Can be mounted in any orientation

Service life:

1. 3 to 5 years expected service life under normal float charge condition at 25°C
2. Cycle service life: 400 to 500 cycles at 50% D.O.D.
1100 to 1200 cycles at 30% D.O.D.
3. Extended shelf life (Up to 12 months at 20°C)

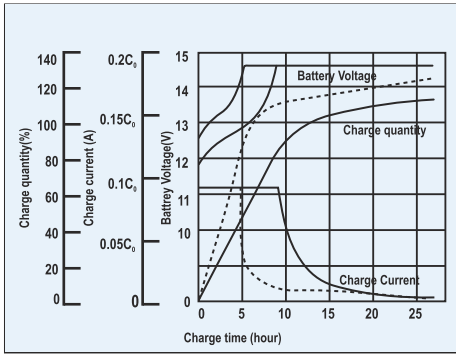
TECHNICAL SPECIFICATION FOR SMF/VRLA BATTERY

Battery Type	Nominal Voltage	20 h Rated Capacity (AH)	Length		Width		Height		Total Height		Weight (approx.)		Max Charging Current (Amps)	Max Discharge Current (5 secs) (Amps)
			mm +/- 2	in +/- 0.08	mm +/- 2	in +/- 0.08	mm +/- 2	in +/- 0.08	mm +/- 2	in +/- 0.08	Kg +/- 3%	Pound +/- 3%		
LUM 12V7.2AH	12	7.2	151.5	5.96	65	2.56	94	3.70	98.5	3.88	2.15	4.74	1.44	102
LUM 12V7.5AH	12	7.5	151.5	5.96	65	2.56	94	3.70	98.5	3.88	2.40	5.29	1.5	102
LUM 12V9AH	12	9	151.5	5.96	65	2.56	94	3.70	98.5	3.88	2.75	6.06	1.8	125
LUM 12V12AH	12	12	181	7.13	76	2.99	168	6.61	168	6.61	3.80	8.38	3.6	255
LUM 12V18AH	12	18	181	7.13	76	2.99	168	6.61	168	6.61	5.30	11.68	4.0	285
LUM 12V26AH	12	26	167	6.57	176	6.93	125	4.92	125	4.92	8.10	17.86	5.2	360
LUM 12V42AH	12	42	198	7.80	167	6.57	169	6.65	169	6.65	13.15	28.99	8.4	570
LUM 12V65AH	12	70	349	13.74	166	6.54	189	7.44	189	7.44	22.00	48.50	14	800
LUM 12V100AH	12	100	307	12.09	169	6.65	230	9.06	230	9.06	31.50	69.45	20	900
LUM 12V135AH	12	135	522	20.55	240	9.45	220	8.66	251	9.88	36.00	79.37	27	1200
LUM 12V150AH	12	150	522	20.55	240	9.45	220	8.66	251	9.88	42.00	92.59	30	1350
LUM 12V165AH	12	165	522	20.55	240	9.45	220	8.66	251	9.88	52.00	114.64	33	1500
LUM 12V200AH	12	198	522	20.55	240	9.45	219	8.62	244	9.61	61.00	134.48	36	1800

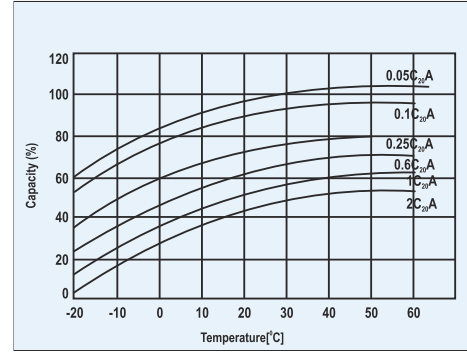
*Due to continuous product improvements, technical specifications are subject to change without prior notice.

Characteristics

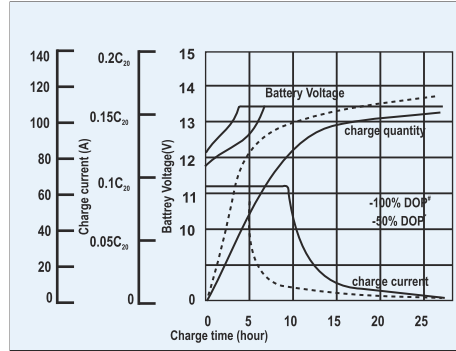
Charge Characteristics for cycle use @ 25°C/77°F



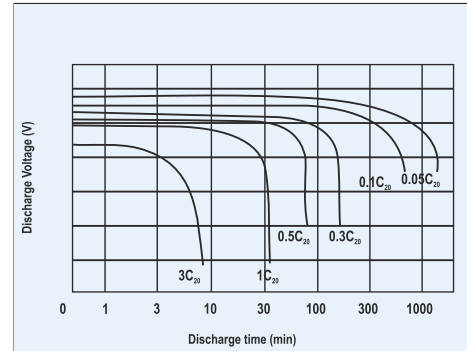
Temperature and Discharge capacity



Charge Characteristics for float use @ 25°C/77°F



Discharge Characteristics at various rates @ 25°C/77°F

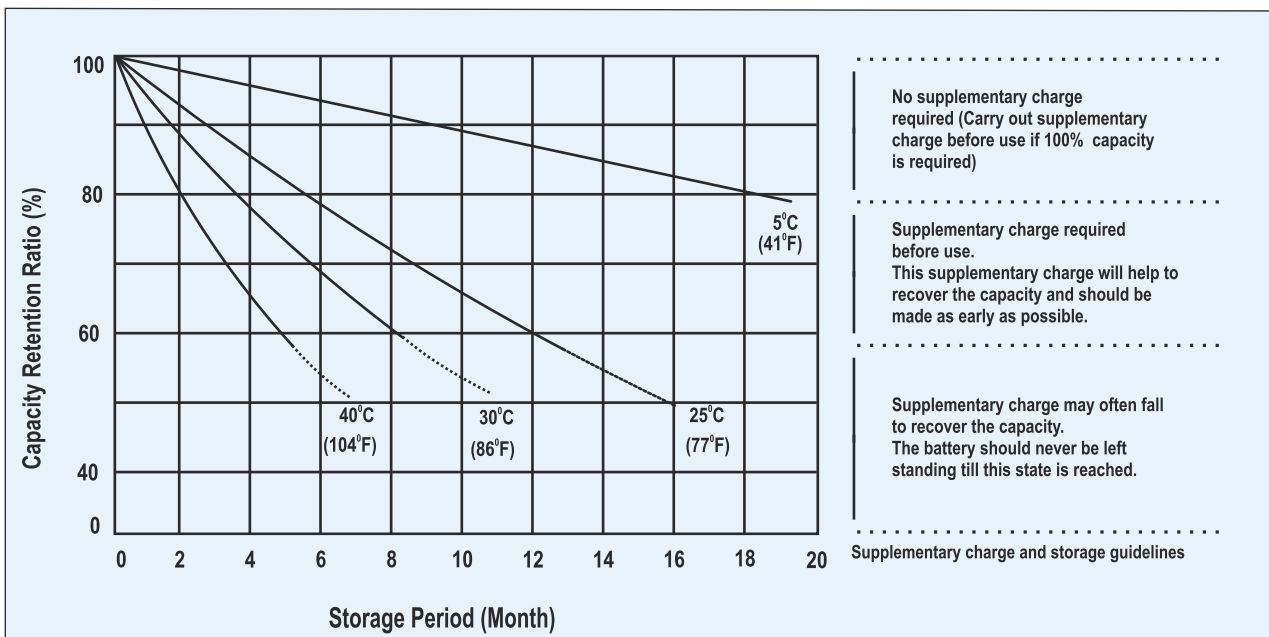


Discharge Current and Final Discharge Voltage

Discharge Current (A)	Final Discharge Voltage (V)	
	12V/per unit	
<0.1C ₂₀	10.5	
0.1C ₂₀ ~<0.3C ₂₀	10.5	
0.3C ₂₀ ~<0.5C ₂₀	10.2	
0.5C ₂₀ ~<1C ₂₀	9.90	
<1C ₂₀	9.60	

Battery Construction

Name of Components	Raw Material
Positive Plate	Lead Dioxide
Negative Plate	Lead
Container	ABS
Cover	ABS
Safety Valve	Rubber
Terminal	Lead Alloy
Separator	Absorbent Glass Mat
Electrolyte	Sulphuric Acid



Founded in 1988, Luminous Power Technologies (P) Limited today is a leading company with a differentiated portfolio of solutions for packaged power, diversified generation, electrical control & safety and energy optimisation.

With over 5000+ employees, 7 manufacturing units, 28 sales offices and more than 40000 channel partners; Luminous apart from its dominating position in the domestic market also has a strong foothold worldwide. Awarded with the 'Global Superbrands' status for the year 2011-12, ISO 50001:2011 certification and MNRE:CRISIL recognition, Luminous is passionately committed to bring uninterrupted and alternate power solutions to the customers that makes their life comfortable and efficient.



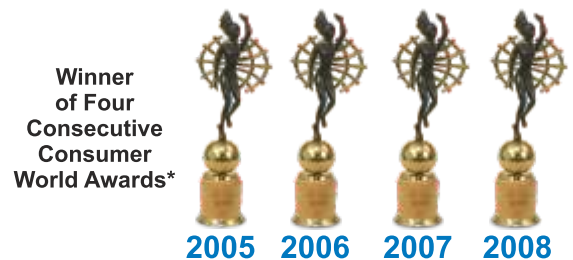
Rating "A+ Stable - CRISIL, the renowned credit rating agency has rated the bank facilities of Rs. 283 crores (incl. proposed limits) enjoyed by LPT as "A+ Stable" based on audited results of FY 2007-08, estimates of FY 2008-09 and projections for 2 years (only company with this rating)



Quality Systems as per ISO 9001-2000 "Quality approvals from many Telecom, Government, Defense and Computer companies in India."



Luminous received the highly coveted Frost & Sullivan Award, marking its global presence



*Inverter category