

LECXO®

LX4.5-6(6V4.5AH)

RECHARGEABLE SEALED LEAD-ACID BATTERY



LX-Series
MADE IN VIETNAM



UPS
SYSTEM



GENERAL
PURPOSE



EMERGENCY
LIGHTING



MEDICAL



FIRE &
SECURITY

APPLICATIONS

- All purpose
- Uninterruptible Power Supply (UPS)
 - Electric Power System (EPS)
- Emergency backup power supply
 - Alarm and security system
- Communication power supply
 - DC power supply
 - Auto control system

GENERAL FEATURES

- 7 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
 - PbCaSn alloy for plate grids: less gassing, less self- discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

STANDARDS

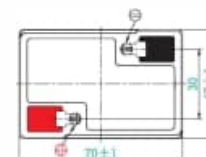
Compliance with & Manufacturing Facilities Certified by:

- ISO 45001, 9001 & 14001
- IEC 60896 Standard
- EU Battery Directive
 - UL Certified
 - CE Certified

SPECIFICATIONS

Rated Voltage		6V
Nominal Capacity	4.5Ah	(C ₂₀ 1.75 V/Cell)
Dimension	Length	70±1mm (2.76inches)
	Width	47±1mm (1.85 inches)
	Container Height	100±2mm (3.94 inches)
	Total Height	106±2mm (4.17 inches)
Approx Weight		0.72 Kg (1.59 lbs)
Terminal		T1
Container Material		ABS
Rated Capacity (25°C)	4.00Ah	(20hr, 0.200A, 1.75V/cell)
	3.78Ah	(10hr, 0.378A, 1.75 V/cell)
	3.45Ah	(5hr, 0.0690A, 1.75 V/cell)
	3.06Ah	(3hr, 1.02A, 1.75 V/cell)
	2.60Ah	(1hr, 2.60A, 1.60 V/cell)
Max. Discharge Current		60A (5s)
Internal Resistance (25°C)		Approx 27mΩ
Operating Temp. Range	Discharge	-15 ~50°C (5 ~122°F)
	Charge	0 ~40°C (32 ~104°F)
	Storage	-15 ~40°C (5 ~104°F)
National Operating Temp Range		25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 1.2A Voltage 7.2V ~7.5V at 25°C (77°F) Temp. Coefficient -15mV/°C	
Standby Use	Initial Charging Current less than 1.2A Voltage 6.75V ~6.9V at 25°C (77°F) Temp Coefficient -20m V/°C	
Effect of Temp to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	LX Series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperature the time interval will be shorter	

DIMENSIONS



T1

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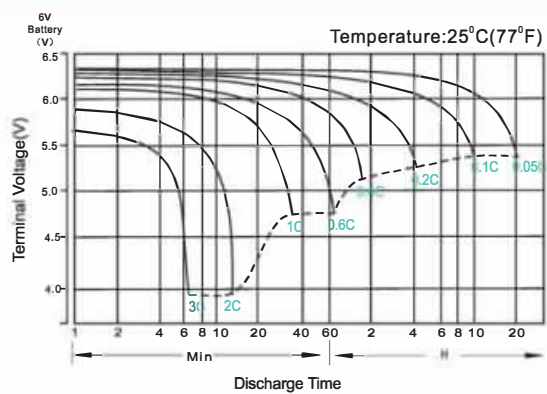
FIRE &
SECURITY



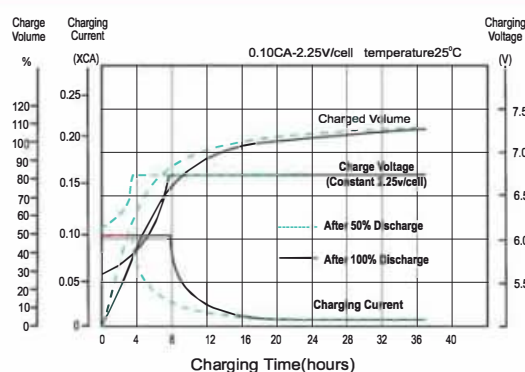
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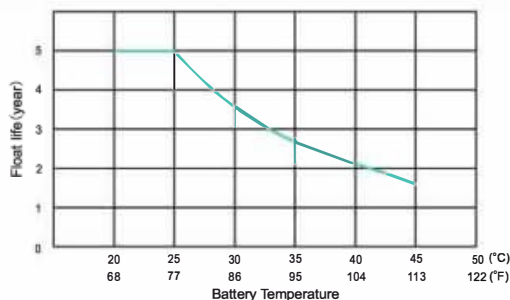
DISCHARGE CHARACTERISTICS



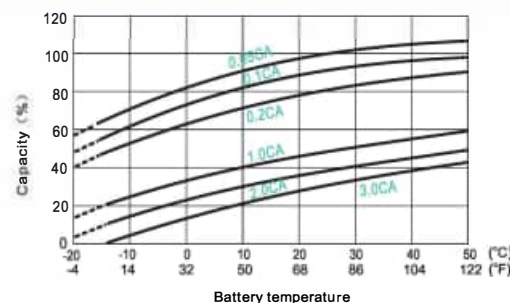
FLOAT CHARGING CHARACTERISTICS



FLOAT SERVICE LIFE



TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	12.28	8.42	6.55	5.33	3.92	2.87	2.35	1.72	1.37	0.99	0.79	0.67	0.57	0.45	0.370	0.196
1.80V/cell	13.21	8.93	6.88	5.54	4.05	2.95	2.41	1.76	1.39	1.00	0.80	0.68	0.58	0.46	0.375	0.198
1.75V/cell	13.92	9.29	7.10	5.70	4.15	3.01	2.46	1.79	1.42	1.02	0.81	0.69	0.59	0.46	0.378	0.200
1.70V/cell	14.58	9.66	7.34	5.86	4.26	3.08	2.50	1.82	1.44	1.04	0.82	0.70	0.60	0.47	0.382	0.202
1.67V/cell	15.08	9.93	7.52	5.98	4.33	3.13	2.54	1.84	1.46	1.05	0.83	0.70	0.60	0.47	0.385	0.203
1.60V/cell	16.00	10.35	7.78	6.16	4.45	3.20	2.60	1.88	1.49	1.06	0.84	0.72	0.61	0.48	0.390	0.205

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	23.24	16.03	12.55	10.27	7.59	5.56	4.57	3.36	2.68	1.94	1.55	1.32	1.14	0.90	0.734	0.391
1.80V/cell	24.75	16.87	13.09	10.62	7.78	5.69	4.67	3.42	2.72	1.97	1.57	1.34	1.15	0.91	0.744	0.396
1.75V/cell	25.79	17.43	13.44	10.86	7.95	5.79	4.74	3.47	2.77	2.00	1.59	1.36	1.16	0.92	0.751	0.400
1.70V/cell	26.75	18.00	13.80	11.11	8.12	5.90	4.82	3.52	2.80	2.02	1.61	1.37	1.18	0.93	0.758	0.403
1.67V/cell	27.44	18.40	14.10	11.32	8.24	5.98	4.88	3.56	2.83	2.04	1.62	1.38	1.19	0.93	0.763	0.406
1.60V/cell	28.56	18.94	14.49	11.59	8.42	6.09	4.97	3.62	2.87	2.07	1.65	1.40	1.20	0.95	0.772	0.411