

LECxo®

LX2.9-12(12V2.9AH)

RECHARGEABLE SEALED LEAD-ACID BATTERY



UPS
SYSTEM



GENERAL
PURPOSE



EMERGENCY
LIGHTING



MEDICAL



FIRE &
SECURITY



LX-Series
MADE IN VIETNAM

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

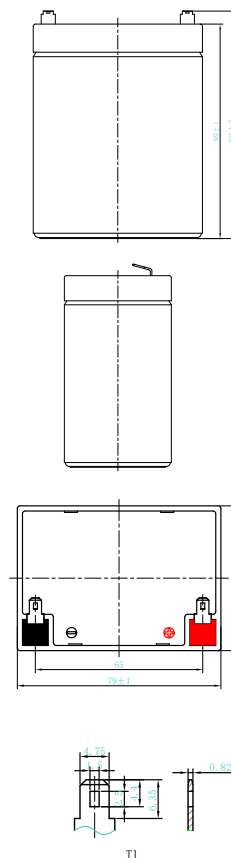
STANDARDS

- Compliance with IEC60896 standards, EU Battery Directive
- Manufactured with IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

SPECIFICATIONS

Rated Voltage		12V
Nominal Capacity	2.9Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	79±1mm (3.11 inches)
	Width	56±1mm (2.20 inches)
	Container Height	99±1mm (3.90 inches)
	Total Height	105±1mm (4.13 inches)
Approx Weight		1.10 Kg (2.43 lbs)
Terminal		T1
Container Material		ABS
Rated Capacity(25°C)	2.90 Ah	(20hr, 0.145A, 1.75V/cell)
	2.70 Ah	(10hr, 0.270A, 1.75V/cell)
	2.44 Ah	(5hr, 0.487A, 1.75V/cell)
	2.13Ah	(3hr, 0.710A, 1.75V/cell)
	1.76 Ah	(1hr, 1.76A, 1.60V/cell)
Max. Discharge Current		44A (5s)
Internal Resistance(25°C)		Approx 50mΩ
Operating Temp. Range	Discharge	-15 ~ 50° C (5 ~ 122° F)
	Charge	-20 ~ 40° C (-4 ~ 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 0.87A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 0.87A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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 temperatures the time interval will be shorter.

DIMENSIONS



LECxo®

LX2.9-12(12V2.9AH)

RECHARGEABLE SEALED LEAD-ACID BATTERY



UPS
SYSTEM



GENERAL
PURPOSE



EMERGENCY
LIGHTING



MEDICAL



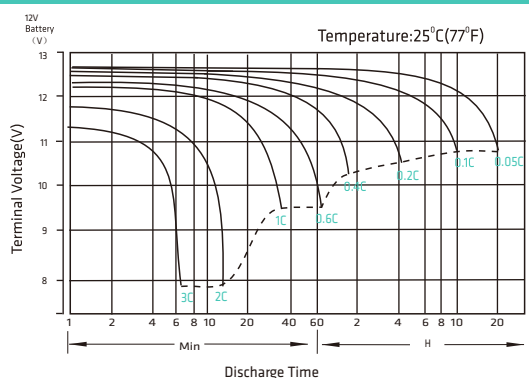
FIRE &
SECURITY



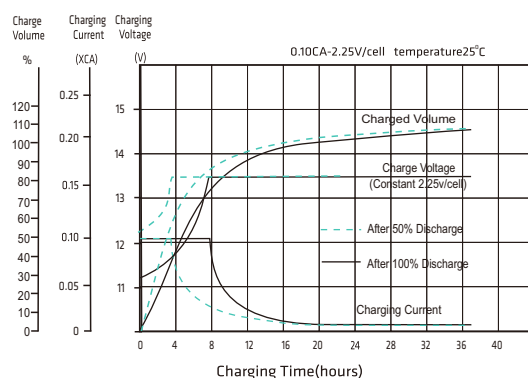
Lx-Series
MADE IN VIETNAM



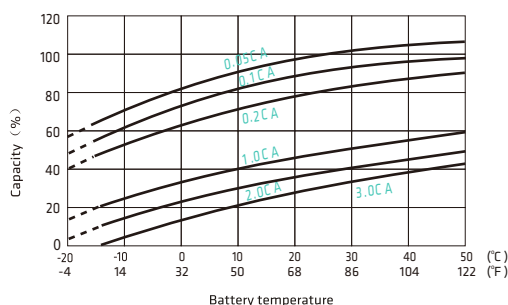
DISCHARGE CHARACTERISTICS



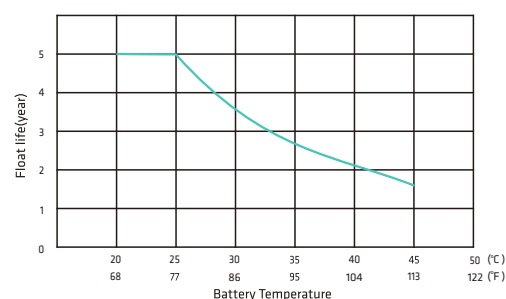
FLOAT CHARGING CHARACTERISTICS



TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



FLOAT SERVICE LIFE



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

F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	5.26	4.11	3.44	2.61	1.96	1.59	1.24	0.938	0.687	0.565	0.474	0.410	0.317	0.264	0.142
1.80V/cell	5.58	4.31	3.58	2.69	2.01	1.63	1.27	0.955	0.699	0.573	0.481	0.416	0.321	0.267	0.143
1.75V/cell	5.80	4.46	3.68	2.76	2.06	1.66	1.29	0.973	0.710	0.581	0.487	0.421	0.325	0.270	0.145
1.70V/cell	6.04	4.60	3.79	2.83	2.10	1.70	1.31	0.987	0.720	0.589	0.494	0.426	0.328	0.273	0.146
1.67V/cell	6.21	4.72	3.86	2.88	2.14	1.72	1.33	1.00	0.727	0.595	0.498	0.430	0.331	0.275	0.147
1.60V/cell	6.47	4.88	3.98	2.96	2.19	1.76	1.36	1.02	0.741	0.605	0.506	0.436	0.336	0.278	0.149

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

F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	10.0	7.87	6.63	5.05	3.80	3.10	2.42	1.84	1.35	1.11	0.936	0.811	0.628	0.524	0.284
1.80V/cell	10.5	8.21	6.86	5.18	3.89	3.16	2.47	1.87	1.37	1.13	0.948	0.822	0.637	0.531	0.287
1.75V/cell	10.9	8.43	7.01	5.29	3.96	3.22	2.51	1.89	1.39	1.14	0.959	0.831	0.643	0.536	0.290
1.70V/cell	11.3	8.66	7.18	5.40	4.04	3.26	2.54	1.92	1.41	1.15	0.971	0.839	0.649	0.541	0.292
1.67V/cell	11.5	8.84	7.31	5.48	4.09	3.31	2.57	1.94	1.42	1.16	0.978	0.846	0.654	0.544	0.295
1.60V/cell	11.8	9.08	7.49	5.60	4.16	3.37	2.61	1.97	1.44	1.18	0.991	0.856	0.663	0.551	0.298