

LECXO®

LX40-12 (12V40AH)

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

- 5 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

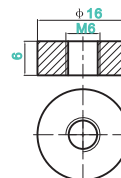
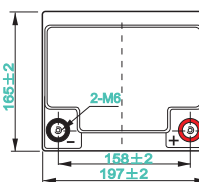
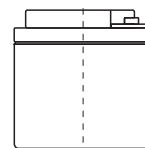
Compliance with & Manufacturing Facilities Certified by:

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

SPECIFICATIONS

Rated Voltage		12V
Nominal Capacity	40.0Ah	(C ₂₀ : 1.80 V/Cell)
Dimension	Length	197±2mm (7.76inches)
	Width	165±2mm (6.50 inches)
	Container Height	170±2mm (6.69 inches)
	Total Height	170±2mm (6.69 inches)
Approx Weight		12.2Kg (26.9 lbs)
Terminal		M6
Container Material		ABS
Rated Capacity (25° C)	42.0Ah	(20hr, 2.10A, 1.80V/cell)
	40.0Ah	(10hr, 4.00A, 1.80 V/cell)
	32.6Ah	(5hr, 6.52A, 1.75 V/cell)
	29.2Ah	(3hr, 9.74A, 1.75 V/cell)
	24.0Ah	(1hr, 24.0A, 1.60 V/cell)
Max. Discharge Current		456A (5s)
Internal Resistance (25°C)		Approx 7.4mΩ
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 18.0A Voltage	
	14.4V ~ 15.0V at 25° C (77° F) Temp. Coefficient - 30mV/°C	
Standby Use	Initial Charging Current less than 18.0A Voltage	
	13.5V ~ 13.8V 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



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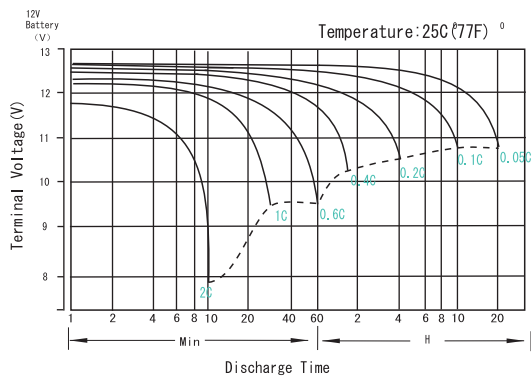
FIRE &
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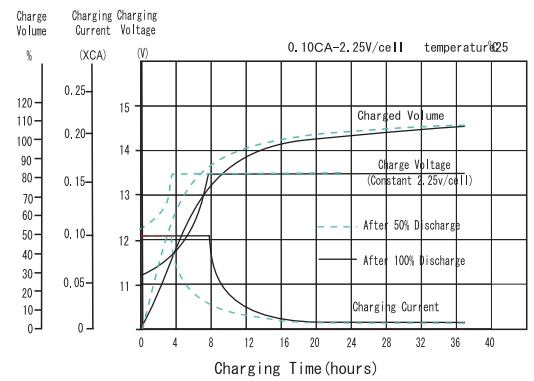
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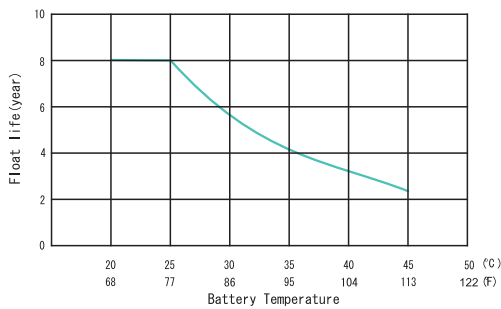
DISCHARGE CHARACTERISTICS



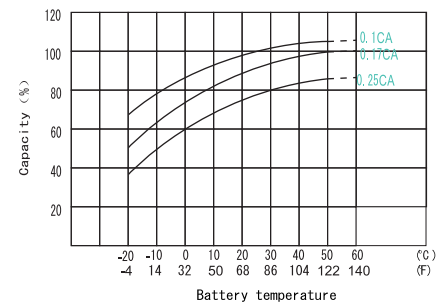
FLOAT CHARGING CHARACTERISTICS



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	87.0	61.8	57.7	45.6	34.6	25.1	18.9	14.7	11.8	8.66	7.08	5.92	5.47	4.17	3.76	1.91
1.80V/cell	98.9	70.2	64.5	51.0	38.7	26.6	20.9	16.1	12.8	9.50	7.63	6.37	5.87	4.47	4.00	2.10
1.75V/cell	107.4	76.1	68.9	54.4	41.3	27.5	21.6	16.6	13.2	9.74	7.82	6.52	5.92	4.55	4.05	2.12
1.70V/cell	114.9	81.2	72.4	57.2	43.5	28.1	22.4	17.2	13.7	9.92	8.02	6.66	5.95	4.63	4.08	2.14
1.67V/cell	118.9	83.7	73.6	58.1	44.1	28.5	22.9	17.5	13.8	10.1	8.13	6.74	5.98	4.68	4.11	2.15
1.60V/cell	123.1	86.6	74.6	59.0	44.8	28.9	24.0	18.3	14.4	10.4	8.36	6.95	6.02	4.79	4.14	2.18

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	159.5	114.2	102.7	81.2	61.7	45.3	40.0	28.4	22.7	17.4	13.8	11.5	10.4	8.16	7.13	3.92
1.80V/cell	178.4	127.8	114.8	90.8	69.0	47.7	43.8	30.9	24.6	18.6	14.7	12.4	11.1	8.71	7.43	4.06
1.75V/cell	190.4	136.4	122.6	96.8	73.5	49.1	45.1	31.7	25.3	19.0	15.1	12.6	11.1	8.88	7.52	4.10
1.70V/cell	200.2	143.4	128.9	101.9	77.4	49.7	46.4	32.6	26.0	19.6	15.4	12.8	11.2	8.98	7.60	4.16
1.67V/cell	203.4	145.7	131.0	103.5	78.6	50.2	47.1	33.1	26.2	19.9	15.6	13.0	11.2	9.09	7.68	4.20
1.60V/cell	206.3	147.7	132.9	105.0	79.7	50.4	48.9	34.2	27.2	20.4	15.9	13.3	11.2	9.28	7.80	4.23