

LECXO®

LX-Series
MADE IN VIETNAM

DEEP CYCLE AGM BATTERY

LX200-12 (12V-200AH)



SOLAR & INVERTER



TELE-COMMUNICATION



MARINE



EMERGENCY LIGHTING



UPS SYSTEM

APPLICATIONS

- Solar & Inverter
- Telecommunications
- Wind System
- CATV, Marine
- Uninterrupted Power Supply (UPS)
- Alarm, Security and Fire system
- DC power supply

GENERAL FEATURES

- 8 years floating design life (25°C)
- 1700 Cycle @ 30% DOD*
- Excellent Recovery capabilities from deep discharge even under frequent discharge use
- Perfect for Solar and Home UPS applications
- Made in Vietnam

STANDARDS

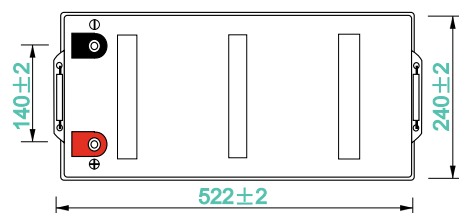
Compliance with & Manufacturing Facilities Certified by:

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

SPECIFICATIONS

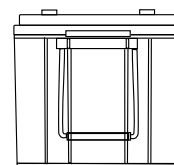
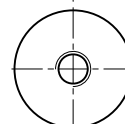
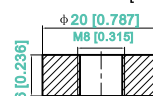
Nominal Voltage	12V	
Nominal Capacity(10HR)	200Ah	
Dimension	Length	522 ± 3mm (20.55 inches)
	Width	240 ± 3mm (9.45 inches)
	Container Height	218 ± 3mm (8.58 inches)
	Total Height (with Terminal)	224 ± 3mm (8.81 inches)
Approx Weight	62.2 KG	137.1 lbs
Terminal	T11	
Container Material	ABS	
Rated Capacity (25°C)	208.0 AH/10.4A	(20hr,1.80V/cell,250C/770F)
	200.0 AH/20.0A	(10hr,1.80V/cell,250C/770F)
	172.0 AH/34.4A	(5hr,1.75V/cell,250C/770F)
	156.0 AH/52.0A	(3hr,1.75V/cell,250C/770F)
	122.0 AH/122.0A	(1hr,1.60V/cell,250C/770F)
Max. Discharge Current	2000A (5s)	
Internal Resistance (25°C)	Approx 2.7m	
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 60.0A Voltage	
	14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient - 30mV/°C	
Standby Use	No limit on Initial Charging Current 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	Lecxo 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



T11 Terminal

Unit: mm [inches]



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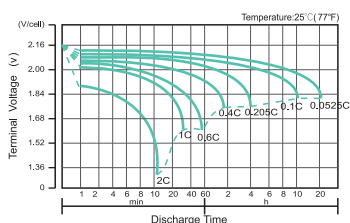


EMERGENCY LIGHTING

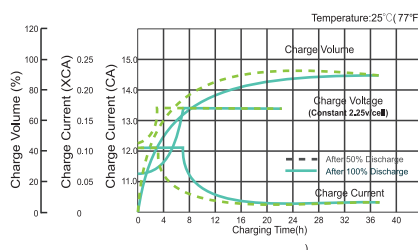


UPS SYSTEM

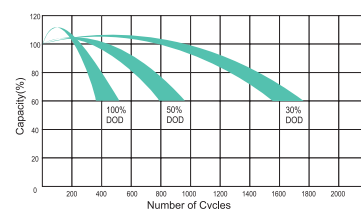
DISCHARGE CHARACTERISTICS CURVE



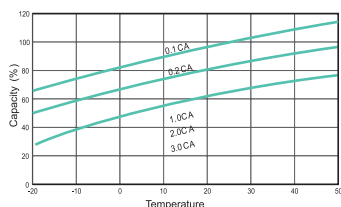
FLOAT CHARGING CHARACTERISTICS



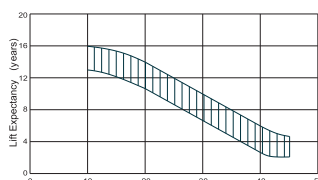
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



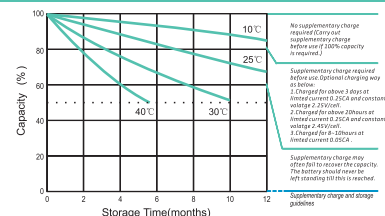
TEMPERATURE EFFECTS ON CAPACITY



EFFECTS OF TEMPERATURE ON LONG TERM LIFE



STORAGE CHARACTERISTICS



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

F.v/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	278.4	240.0	204.6	154.8	115.1	94.3	60.1	46.2	37.6	31.3	27.2	22.1	18.9	10.3
1.80V/cell	343.9	282.4	235.8	179.5	133.9	105.6	65.5	50.6	40.6	33.6	29.2	23.4	20.0	10.4
1.75V/cell	377.8	302.0	250.2	189.2	139.0	110.5	68.0	52.0	41.7	34.5	30.0	23.8	20.2	10.5
1.70V/cell	411.8	322.5	264.0	196.4	144.5	114.0	70.7	53.5	42.7	35.3	30.6	24.2	20.4	10.7
1.67V/cell	444.4	342.9	281.4	204.6	148.1	117.8	72.7	55.8	44.2	36.3	31.3	24.7	20.8	10.8
1.60V/cell	476.4	366.7	297.6	216.0	154.4	122.0	75.1	57.5	45.5	37.3	32.0	25.1	21.0	10.9

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

F.v/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	514.3	447.8	385.7	295.0	221.3	181.9	116.6	90.1	73.4	61.3	53.5	43.6	37.4	20.4
1.80V/cell	627.7	519.9	438.0	336.9	255.4	202.6	126.4	98.1	78.9	65.5	57.2	46.1	39.5	20.6
1.75V/cell	678.7	549.2	460.2	352.2	262.5	211.0	130.6	100.5	80.7	67.2	58.6	46.8	39.9	20.7
1.70V/cell	723.0	578.2	482.0	363.5	272.0	217.0	135.6	103.1	82.6	68.6	59.7	47.4	40.2	21.1
1.67V/cell	773.1	610.1	509.9	375.7	276.3	222.7	138.5	107.0	85.1	70.2	60.8	48.4	41.0	21.4
1.60V/cell	809.8	641.7	533.4	393.8	286.4	229.4	142.5	109.8	87.3	72.0	61.9	49.0	41.4	21.5