

LECXO®

DEEP CYCLE AGM BATTERY

LX100-12 (12V-100AH)



LX-Series
MADE IN VIETNAM



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

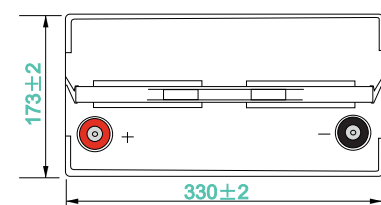
Compliance with & Manufacturing Facilities Certified by:

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

SPECIFICATIONS

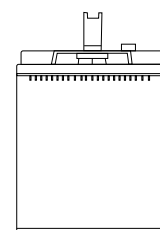
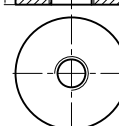
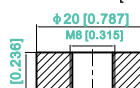
Nominal Voltage		12V
Nominal Capacity(10HR)	100Ah	
Dimension	Length	330±3mm (12.99 inches)
	Width	173±2mm (6.81 inches)
	Container Height	212±3mm (8.35 inches)
	Total Height (with Terminal)	220±3mm (8.66 inches)
Approx Weight	32.5 kg	67.0lbs
Terminal	T6/T11	
Container Material	ABS	
Rated Capacity (25°C)	104.0 AH/5.20A	(20hr,1.80V/cell,25°C/77°F)
	100.0 AH/10.0A	(10hr,1.80V/cell,25°C/77°F)
	88.0 AH/17.6A	(5hr,1.75V/cell,25°C/77°F)
	76.2 AH/25.4A	(3hr,1.75V/cell,25°C/77°F)
	63.8 AH/63.8A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current		1200A (5s)
Internal Resistance (25°C)		Approx 4.9m
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	
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	
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



T6/T11 Terminal

Unit: mm [inches]



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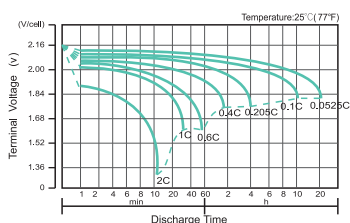


EMERGENCY LIGHTING

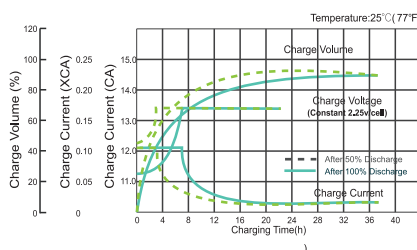


UPS SYSTEM

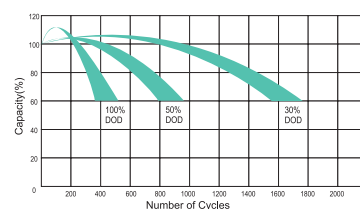
DISCHARGE CHARACTERISTICS CURVE



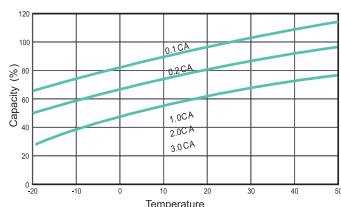
FLOAT CHARGING CHARACTERISTICS



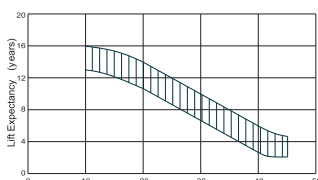
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



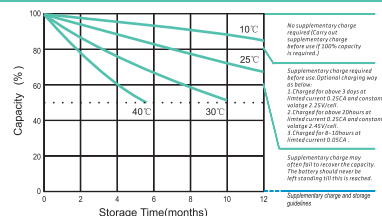
TEMPERATURE EFFECTS ON CAPACITY



EFFECTS OF TEMPERATURE ON LONG TERM LIFE



STORAGE CHARACTERISTICS



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

F.v/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	173.6	146.4	130.2	115.3	87.5	65.2	52.4	31.3	23.5	19.2	16.4	14.4	11.6	9.65	5.13
1.80V/cell	210.0	167.6	143.7	123.5	92.1	68.7	55.1	33.1	24.6	20.2	17.2	15.0	12.0	10.0	5.20
1.75V/cell	237.0	186.3	154.0	130.8	96.5	71.3	57.1	34.4	25.4	20.7	17.6	15.3	12.2	10.1	5.29
1.70V/cell	261.6	199.5	165.1	138.9	101.8	74.6	59.5	35.3	26.0	21.2	17.9	15.6	12.4	10.2	5.34
1.67V/cell	291.7	215.1	178.5	146.6	106.7	77.4	61.9	36.3	26.7	21.7	18.3	15.9	12.6	10.3	5.40
1.60V/cell	330.8	232.5	188.5	154.3	112.3	80.5	63.8	37.5	27.6	22.2	18.6	16.2	12.7	10.5	5.45

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

F.v/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	322.5	274.9	247.1	220.5	168.5	126.4	102.2	60.8	45.7	37.5	32.2	28.2	22.9	19.1	10.2
1.80V/cell	386.4	312.2	271.0	235.1	176.8	132.7	107.2	63.8	47.7	39.2	33.6	29.4	23.7	19.8	10.3
1.75V/cell	431.3	344.9	288.7	247.8	184.3	137.3	110.8	66.0	49.1	40.1	34.3	29.9	24.0	19.9	10.4
1.70V/cell	470.9	366.5	307.7	261.8	193.6	143.0	115.0	67.6	50.1	41.0	34.8	30.4	24.3	20.1	10.5
1.67V/cell	519.3	391.4	330.2	274.5	201.9	147.7	119.1	69.2	51.3	41.8	35.3	30.8	24.6	20.3	10.6
1.60V/cell	578.9	418.2	345.1	286.6	211.1	152.9	122.4	71.1	52.7	42.6	35.9	31.3	24.8	20.5	10.7