

LECXO®

LX-Series
MADE IN VIETNAM

DEEP CYCLE AGM BATTERY

LX150-12 (12V-150AH)



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

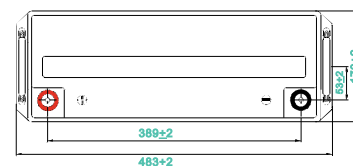
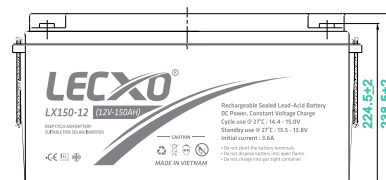
STANDARDS

- Compliance with & Manufacturing Facilities Certified by:
- ISO 45001, 9001 & 14001
 - IEC 60896 Standard
 - EU Battery Directive
 - UL Certified
 - CE Certified

SPECIFICATIONS

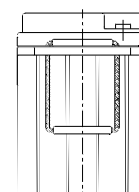
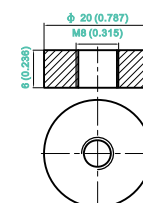
Nominal Voltage	12V	
Nominal Capacity(10HR)	150Ah	
Dimension	Length	483 ± 3mm (19.0 inches)
	Width	170 ± 3mm (6.69 inches)
	Container Height	238.5 ± 3mm (9.39 inches)
	Total Height (with Terminal)	238.5 ± 3mm (9.39 inches)
Approx Weight	43.5 KG	95.9 lbs
Terminal	T11	
Container Material	ABS	
Rated Capacity (25°C)	156.0 AH/7.80A	(20hr, 1.80V/cell, 25°C/77°F)
	150.0 AH/15.0A	(10hr, 1.80V/cell, 25°C/77°F)
	129.0 AH/25.8A	(5hr, 1.75V/cell, 25°C/77°F)
	117.0 AH/39.0A	(3hr, 1.75V/cell, 25°C/77°F)
	91.5 AH/91.5A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1500A (5s)	
Internal Resistance (25°C)	Approx 3.5m	
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	
	No limit on Initial Charging Current 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	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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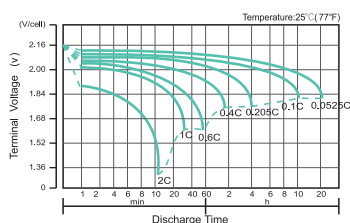


EMERGENCY LIGHTING

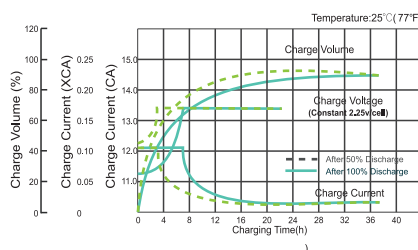


UPS SYSTEM

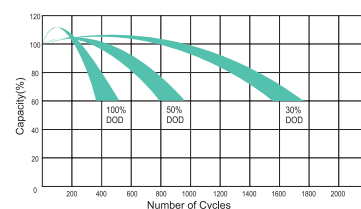
DISCHARGE CHARACTERISTICS CURVE



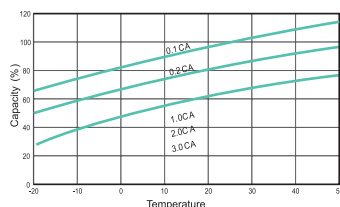
FLOAT CHARGING CHARACTERISTICS



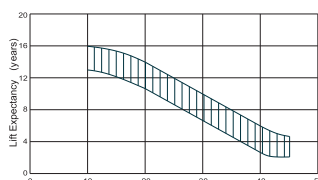
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



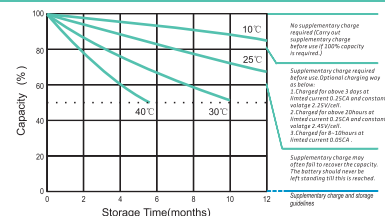
TEMPERATURE EFFECTS ON CAPACITY



EFFECTS OF TEMPERATURE ON LONG TERM LIFE



STORAGE CHARACTERISTICS



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

F.v/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	256.7	201.8	171.6	143.6	114.1	86.4	70.7	45.0	35.6	29.1	23.5	20.4	16.6	14.2	7.73
1.80V/cell	344.6	257.9	207.4	169.7	134.6	100.4	79.2	49.2	38.3	31.1	25.2	21.9	17.6	15.0	7.80
1.75V/cell	388.5	283.4	226.5	182.6	139.8	104.2	82.9	51.0	39.0	31.8	25.8	22.5	17.9	15.1	7.88
1.70V/cell	427.9	308.9	241.8	191.9	145.5	108.4	85.5	53.0	40.1	32.6	26.5	23.0	18.1	15.3	8.03
1.67V/cell	471.8	333.3	251.2	203.8	153.5	111.1	88.4	54.5	41.8	33.7	27.2	23.5	18.4	15.6	8.13
1.60V/cell	\	361.9	275.0	217.1	162.0	115.8	91.5	56.3	43.1	34.8	28.1	24.0	18.6	15.8	8.18

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	469.4	372.8	320.3	270.6	217.5	166.0	136.4	87.5	69.4	56.9	46.0	40.1	32.7	28.0	15.3
1.80V/cell	623.4	470.8	381.8	315.2	252.7	191.6	152.0	94.8	74.3	60.4	49.1	42.9	34.6	29.6	15.4
1.75V/cell	687.9	509.0	411.9	335.8	260.2	196.9	158.3	98.0	75.4	61.5	50.3	43.9	35.1	29.9	15.6
1.70V/cell	736.5	542.2	433.6	350.3	269.3	204.0	162.7	101.7	77.3	63.0	51.4	44.8	35.6	30.2	15.8
1.67V/cell	800.6	579.8	457.5	369.3	281.8	207.2	167.0	103.9	80.2	65.0	52.7	45.6	36.1	30.7	16.0
1.60V/cell	\	615.1	481.2	389.2	295.4	214.8	172.0	106.9	82.3	66.8	54.2	46.5	36.3	31.0	16.1