

LPX SERIES-High Rate / UPS

LPX12-3.2 (12V3.2AH)



Specification

Nominal Voltage	12V	
Nominal Capacity(8HR)	3.2AH	
Dimension	Length	134 ± 1mm (5.28 inches)
	Width	67 ± 1mm (2.64 inches)
	Container Height	60.5 ± 1mm (2.38 inches)
	Total Height (with Terminal)	66.5 ± 1mm (2.62 inches)
Approx Weight	Approx 1.35 kg (2.98lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity	3.34 AH/0.334A	(10hr, 1.80V/cell, 25°C/77°F)
	3.20 AH/0.40A	(8hr, 1.75V/cell, 25°C/77°F)
	2.85 AH/0.57A	(5hr, 1.75V/cell, 25°C/77°F)
	2.63 AH/0.88A	(3hr, 1.75V/cell, 25°C/77°F)
	2.28 AH/2.28A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	48A (5s)	
Internal Resistance	Approx 45mΩ	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	0~40°C (32~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
Cycle Use	Initial Charging Current less than 0.96A. 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 -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Leoch LPX 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.	

Applications

- ◆ UPS (High rate)
- ◆ High power backup supply
- ◆ Emergency power supply
- ◆ Starting system
- ◆ Power tools
- ◆ Emergency lighting
- ◆ Electric starting



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	6.25	5.09	4.09	3.62	2.82	2.14	1.76	1.04	0.80	0.63	0.50	0.45	0.371	0.316	0.180
1.80V/cell	8.39	6.50	4.95	4.28	3.33	2.48	1.98	1.14	0.86	0.67	0.54	0.48	0.393	0.334	0.182
1.75V/cell	9.46	7.15	5.40	4.60	3.46	2.58	2.07	1.18	0.88	0.69	0.57	0.49	0.400	0.338	0.183
1.70V/cell	10.4	7.79	5.77	4.84	3.60	2.68	2.13	1.22	0.90	0.71	0.58	0.50	0.406	0.341	0.187
1.65V/cell	11.5	8.41	6.13	5.14	3.79	2.75	2.21	1.26	0.94	0.73	0.59	0.52	0.412	0.348	0.189
1.60V/cell	12.7	9.13	6.56	5.47	4.01	2.86	2.28	1.30	0.97	0.75	0.61	0.53	0.416	0.352	0.190

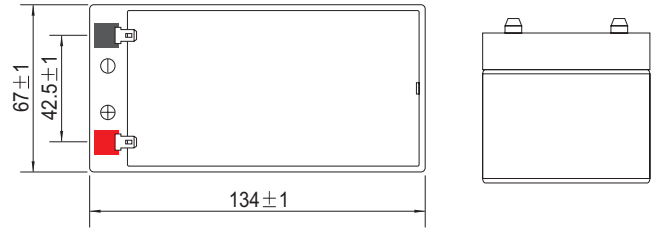
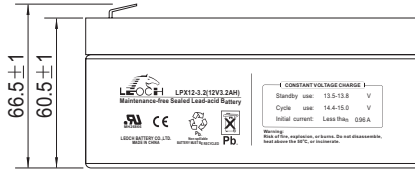
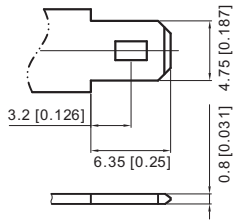
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	11.4	9.40	7.64	6.82	5.38	4.11	3.40	2.02	1.56	1.23	0.99	0.88	0.732	0.624	0.357
1.80V/cell	15.2	11.9	9.11	7.94	6.25	4.74	3.79	2.19	1.67	1.31	1.06	0.94	0.774	0.661	0.360
1.75V/cell	16.8	12.8	9.82	8.46	6.43	4.87	3.95	2.26	1.69	1.33	1.11	0.97	0.786	0.666	0.362
1.70V/cell	17.9	13.7	10.3	8.83	6.66	5.05	4.06	2.35	1.74	1.37	1.13	0.98	0.796	0.673	0.369
1.65V/cell	19.5	14.6	10.9	9.31	6.97	5.12	4.17	2.40	1.80	1.41	1.14	1.00	0.806	0.686	0.374
1.60V/cell	21.0	15.5	11.5	9.81	7.30	5.31	4.29	2.47	1.85	1.45	1.17	1.02	0.812	0.691	0.375

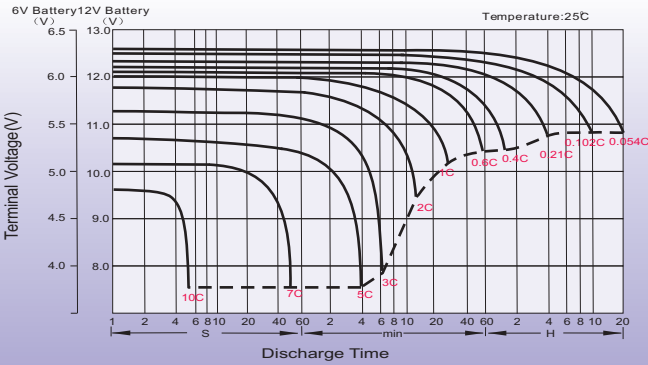
Dimensions

T1 Terminal

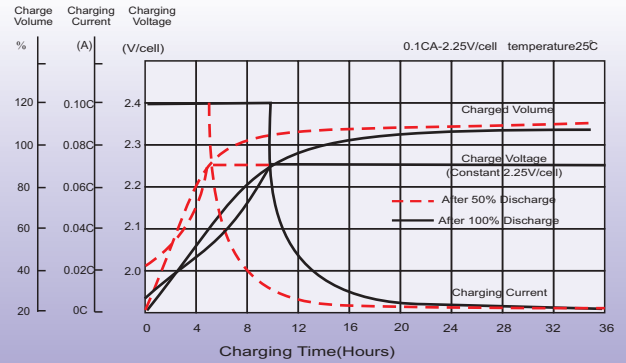
Unit: mm [inches]



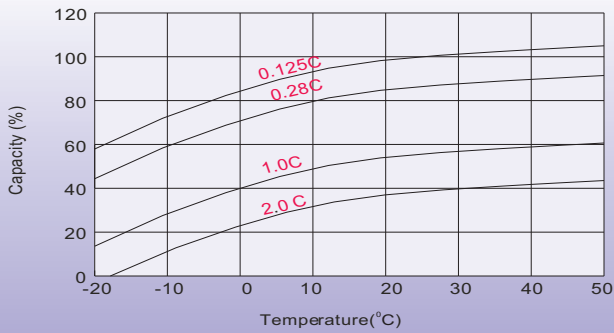
Discharge Characteristics



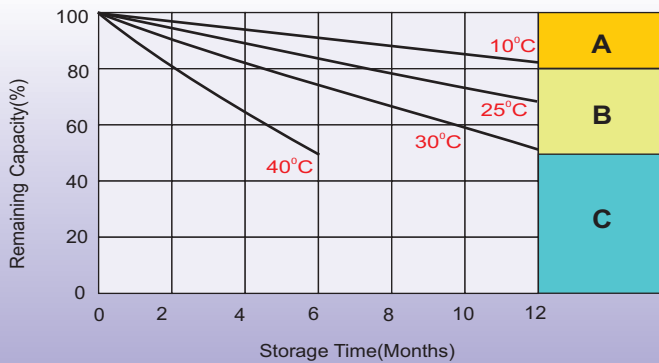
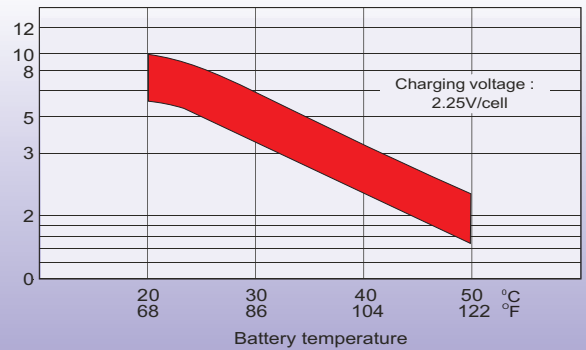
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics

- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

Sales Office

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