LPX SERIES-High Rate / UPS

LPX12-6.5 (12V6.5AH)

Specification

Nomial Voltage	12V	
Nomial Capacity(8HR)	6.5AH	
Dimension	Length	151±1mm (5.94 inches)
	Width	53±1mm (2.09 inches)
	Container Height	93±1mm (3.66 inches)
	Total Height (with Terminal)	99±1mm (3.90 inches)
Approx Weight	Approx 2.1 kg (4.63lbs)	
Terminal	T1 / T2	
Container Material	ABS	
Rated Capacity	6.79 AH/0.679A	(10hr ,1.80V/cell,25°C/77°F)
	6.50 AH/0.813A	(8hr,1.75V/cell,25°C/77°F)
	5.79 AH/1.16A	(5hr,1.75V/cell,25°C/77°F)
	5.34 AH/1.78A	(3hr,1.75V/cell,25°C/77°F)
	4.64 AH/4.64A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	97.5A (5s)	
Internal Resistance	Approx 35mΩ	
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 than1.95A.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 batterys 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	12.7	10.3	8.32	7.35	5.73	4.34	3.58	2.11	1.62	1.28	1.03	0.91	0.753	0.641	0.366
1.80V/cell	17.0	13.2	10.0	8.69	6.76	5.05	4.02	2.31	1.75	1.37	1.10	0.98	0.799	0.679	0.369
1.75V/cell	19.2	14.5	11.0	9.35	7.02	5.24	4.20	2.39	1.78	1.40	1.16	1.00	0.813	0.686	0.372
1.70V/cell	21.2	15.8	11.7	9.82	7.31	5.45	4.33	2.49	1.83	1.44	1.18	1.03	0.824	0.693	0.380
1.65V/cell	23.3	17.1	12.5	10.4	7.71	5.58	4.48	2.56	1.91	1.49	1.20	1.05	0.837	0.707	0.385
1.60V/cell	25.7	18.5	13.3	11.1	8.14	5.82	4.64	2.64	1.97	1.53	1.23	1.07	0.845	0.714	0.387

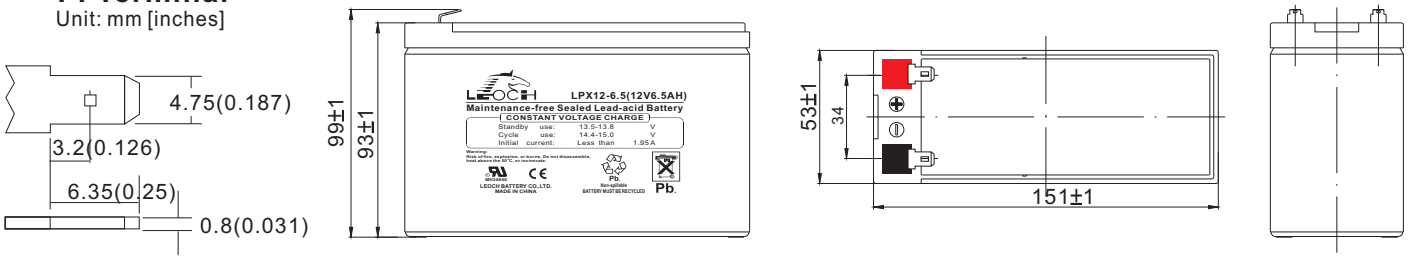
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	23.2	19.1	15.5	13.9	10.9	8.34	6.91	4.10	3.17	2.51	2.01	1.79	1.49	1.27	0.725
1.80V/cell	30.8	24.1	18.5	16.1	12.7	9.62	7.70	4.45	3.39	2.66	2.15	1.91	1.57	1.34	0.730
1.75V/cell	34.0	26.1	20.0	17.2	13.1	9.89	8.02	4.60	3.44	2.71	2.25	1.96	1.60	1.35	0.736
1.70V/cell	36.4	27.8	21.0	17.9	13.5	10.2	8.25	4.77	3.53	2.78	2.30	2.00	1.62	1.37	0.749
1.65V/cell	39.6	29.7	22.2	18.9	14.2	10.4	8.47	4.87	3.66	2.86	2.32	2.04	1.64	1.39	0.759
1.60V/cell	42.7	31.5	23.3	19.9	14.8	10.8	8.72	5.01	3.76	2.94	2.37	2.07	1.65	1.40	0.762

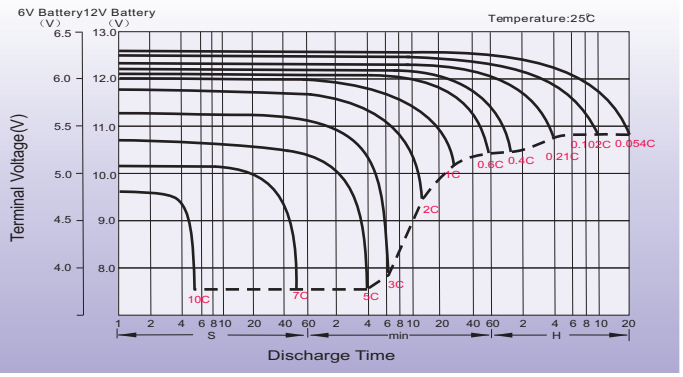
Dimensions

T1 Terminal

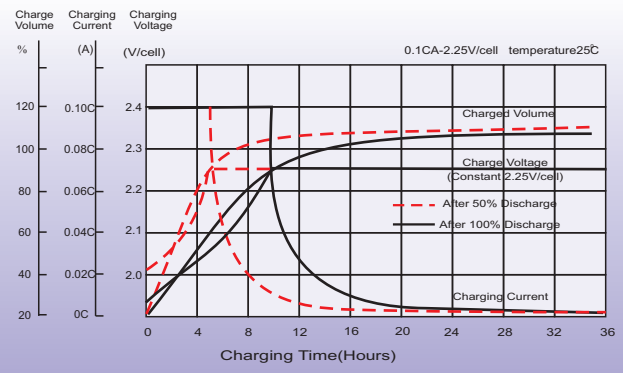
Unit: mm [inches]



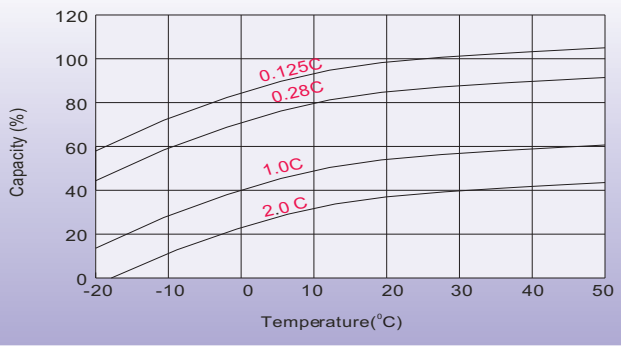
Discharge Characteristics



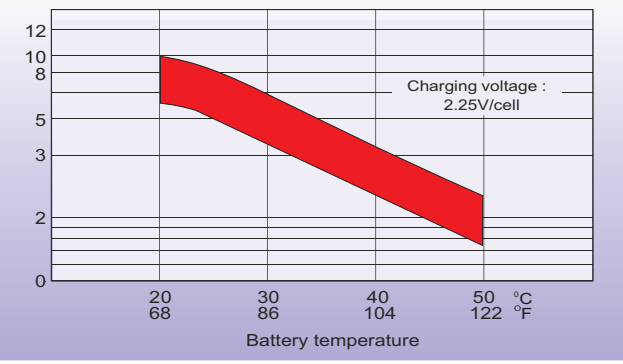
Float Charging Characteristics

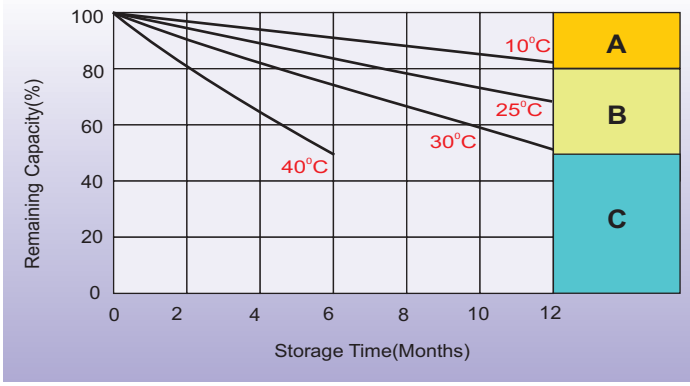


Temperature Effects in Relation to Battery Capacity



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 limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted 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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