

LPC SERIES -Deep Cycle

LPC12-7.2 (12V7.2AH)

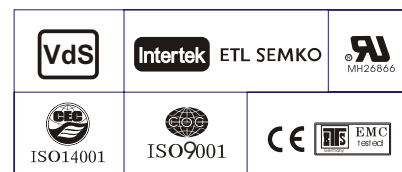
Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	7.2AH	
Dimension	Length	151±2mm (5.95 inches)
	Width	65±1mm (2.56 inches)
	Container Height	93.5±1mm (3.68 inches)
	Total Height (with Terminal)	99±1mm (3.90 inches)
Approx Weight	Approx 2.50 Kg (5.51 lbs)	
Terminal	T1 / T2	
Container Material	ABS	
Rated Capacity	7.72 AH/0.386A	(20hr , 1.80V/cell,25°C/77°F)
	7.20 AH/0.72A	(10hr, 1.80V/cell,25°C/77°F)
	6.31 AH/1.26A	(5hr, 1.75V/cell,25°C/77°F)
	5.72 AH/1.91A	(3hr, 1.75V/cell,25°C/77°F)
	46.5 AH/4.65A	(1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	108A (5s)	
Internal Resistance	Approx 18.0mΩ	
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 2.16A.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 LPC 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

- ♦ Electric tools
- ♦ Vehicle in place of walking
- ♦ Lawn mowers
- ♦ Golf trolleys and golf cart
- ♦ Portable apparatus, lights and instruments;
- ♦ Electric toys
- ♦ Illumination light
- ♦ Fire alarms
- ♦ Portable power
- ♦ Wheelchairs
- ♦ Medical equipments.



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	10.5	8.87	7.75	5.58	4.43	3.59	2.23	1.74	1.41	1.15	1.00	0.816	0.680	0.382
1.80V/cell	13.5	10.7	9.16	6.58	5.15	4.03	2.44	1.87	1.51	1.23	1.07	0.865	0.720	0.386
1.75V/cell	14.8	11.7	9.86	6.83	5.35	4.21	2.53	1.91	1.54	1.26	1.10	0.880	0.727	0.390
1.70V/cell	16.1	12.5	10.4	7.11	5.56	4.35	2.63	1.96	1.58	1.29	1.12	0.893	0.734	0.397
1.65V/cell	17.4	13.3	11.0	7.50	5.70	4.49	2.70	2.04	1.63	1.33	1.15	0.907	0.750	0.402
1.60V/cell	18.9	14.2	11.7	7.92	5.94	4.65	2.79	2.11	1.69	1.37	1.17	0.916	0.757	0.404

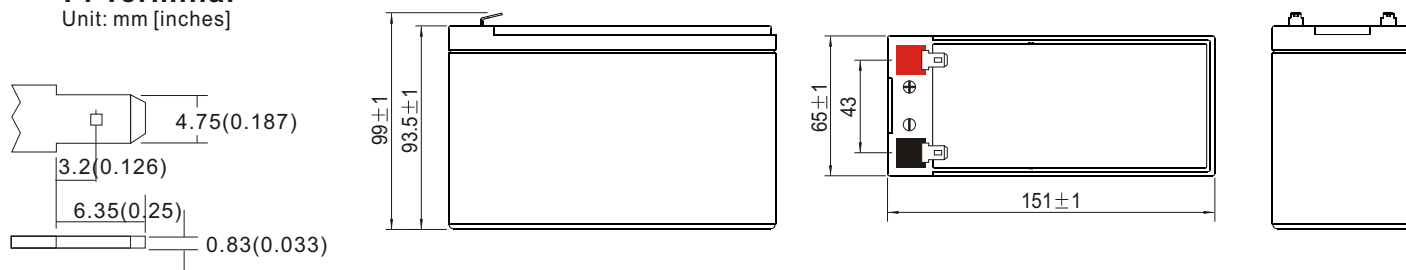
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	19.7	16.7	14.8	10.7	8.57	6.98	4.35	3.40	2.76	2.25	1.97	1.61	1.35	0.765
1.80V/cell	24.8	19.9	17.2	12.5	9.89	7.77	4.72	3.64	2.93	2.41	2.11	1.71	1.43	0.771
1.75V/cell	26.9	21.5	18.3	12.9	10.2	8.10	4.88	3.70	2.99	2.47	2.16	1.74	1.44	0.777
1.70V/cell	28.9	22.8	19.2	13.4	10.6	8.33	5.06	3.79	3.07	2.52	2.21	1.76	1.45	0.791
1.65V/cell	31.0	24.1	20.3	14.1	10.8	8.58	5.19	3.95	3.17	2.59	2.25	1.79	1.48	0.800
1.60V/cell	33.1	25.5	21.4	14.7	11.2	8.82	5.33	4.05	3.25	2.66	2.30	1.80	1.49	0.803

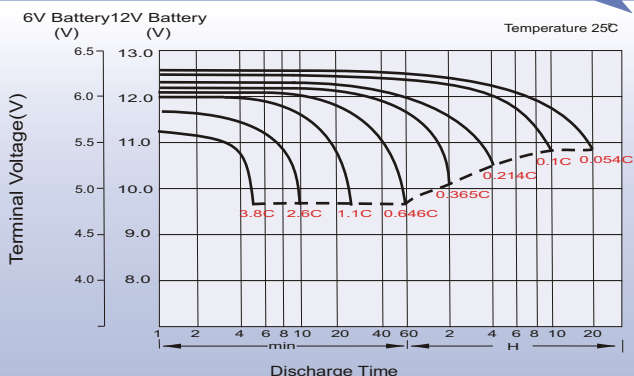
Dimensions

T1 Terminal

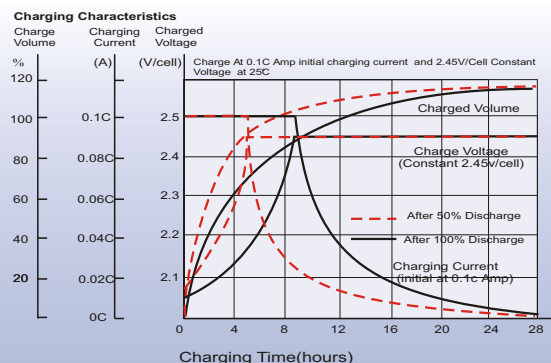
Unit: mm [inches]



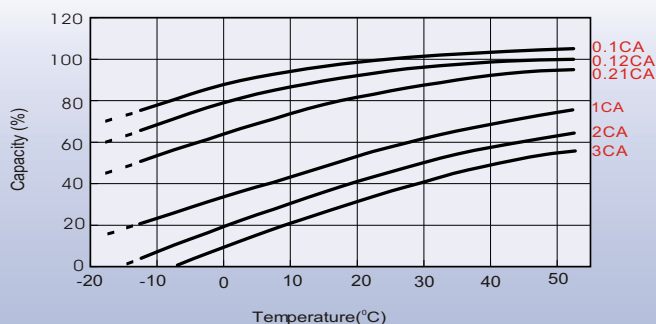
Discharge Characteristics



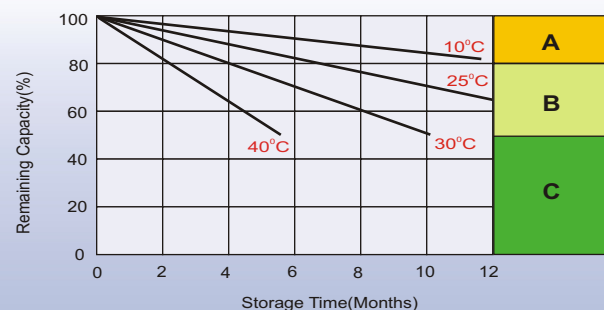
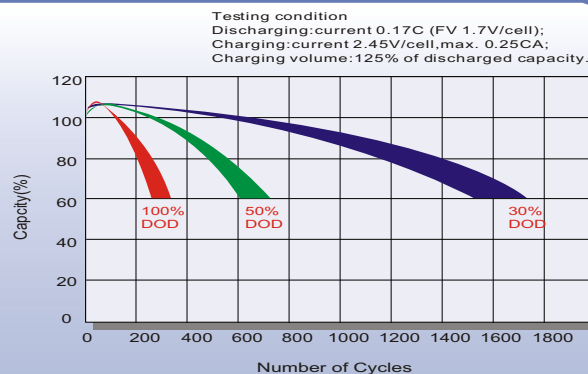
Charging Characteristics (cycle use)



Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



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:
 - Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 - Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 - 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.

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