



LPC SERIES - Deep Cycle

LPC12-26H (12V26AH)

Specification

Nominal Voltage	12V
Nominal Capacity(10HR)	26.0AH
Dimension	Length 164±2mm (6.45 inches)
	Width 125±2mm (4.92 inches)
	Container Height 175±2mm (6.89 inches)
	Total Height (with Terminal) 175±2mm (6.89 inches)
Approx Weight	Approx 9.1 Kg (20.1 lbs)
Terminal	T3-A
Container Material	ABS
Rated Capacity	27.8 AH/1.39A (20hr, 1.80V/cell, 25°C/77°F)
	26.0 AH/2.60A (10hr, 1.80V/cell, 25°C/77°F)
	22.8 AH/4.56A (5hr, 1.75V/cell, 25°C/77°F)
	20.3 AH/6.78A (3hr, 1.75V/cell, 25°C/77°F)
	16.8 AH/16.8A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	390A (5s)
Internal Resistance	Approx 12.0mΩ
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 7.8A. 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	33.1	28.9	25.4	20.5	15.6	13.0	8.06	6.01	4.87	4.14	3.61	2.95	2.45	1.38
1.80V/cell	40.7	33.3	28.8	22.8	17.8	14.5	8.80	6.53	5.27	4.44	3.87	3.13	2.60	1.39
1.75V/cell	47.3	37.8	31.7	24.6	18.7	15.2	9.13	6.78	5.45	4.56	3.98	3.18	2.63	1.41
1.70V/cell	51.0	40.4	33.9	25.8	19.3	15.7	9.49	6.96	5.58	4.67	4.06	3.22	2.65	1.43
1.65V/cell	55.1	42.6	35.3	26.8	20.1	16.2	9.76	7.15	5.70	4.80	4.15	3.27	2.71	1.45
1.60V/cell	59.6	45.3	37.4	28.1	20.9	16.8	10.1	7.33	5.83	4.91	4.24	3.31	2.74	1.46

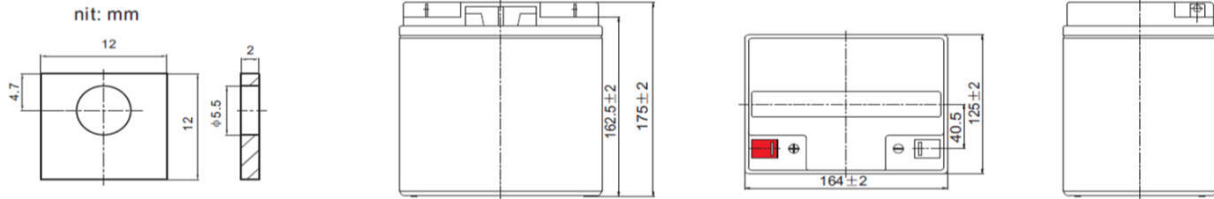
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	61.7	54.5	48.5	39.4	30.1	25.2	15.7	11.8	9.53	8.13	7.13	5.83	4.86	2.76
1.80V/cell	75.0	61.8	54.0	43.2	34.1	28.1	17.0	12.7	10.3	8.70	7.62	6.17	5.15	2.78
1.75V/cell	85.9	69.4	58.9	46.5	35.7	29.2	17.6	13.1	10.6	8.91	7.82	6.28	5.19	2.81
1.70V/cell	91.5	73.7	62.7	48.5	36.8	30.1	18.3	13.5	10.8	9.12	7.97	6.36	5.24	2.86
1.65V/cell	98.0	77.3	65.1	50.2	38.1	31.0	18.7	13.8	11.0	9.36	8.13	6.45	5.34	2.89
1.60V/cell	104.3	81.3	68.1	52.1	39.4	31.8	19.3	14.1	11.2	9.52	8.29	6.51	5.40	2.90

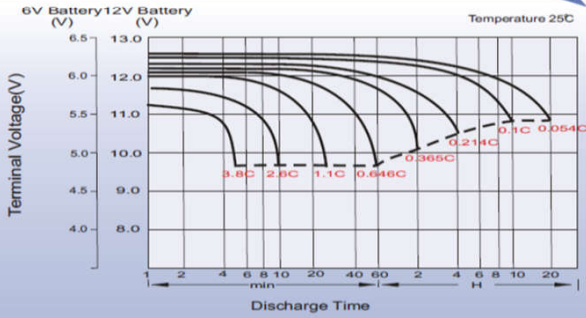


Dimensions

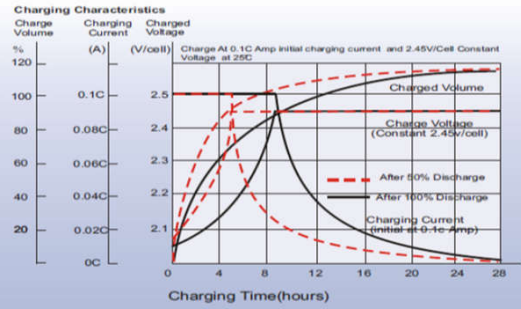
T3-A Terminal



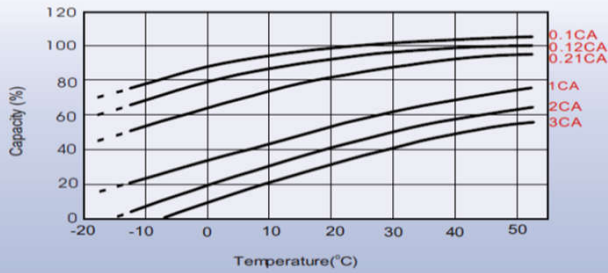
Discharge Characteristics



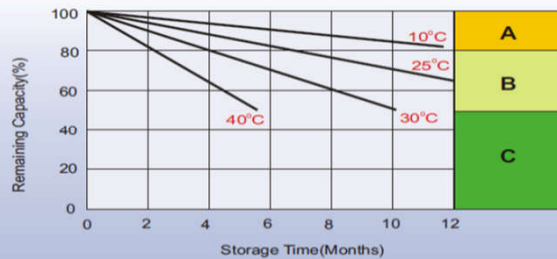
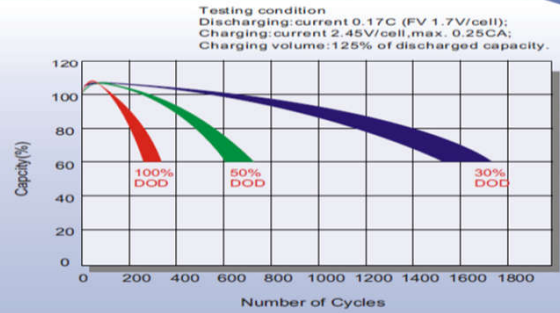
Charging Characteristics (cycle use)



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:
 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.

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