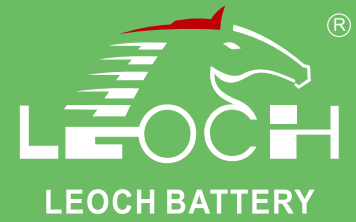




# LPC Series-Cycle Application

## LPC12-13(12V14Ah)

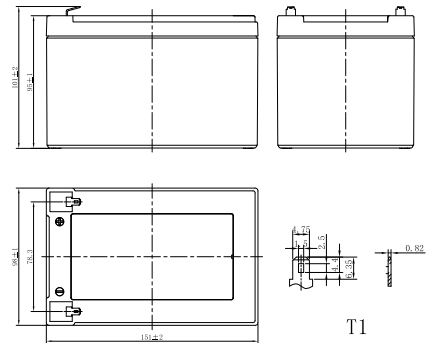


### Specifications

Rated Voltage	12V		
Rated Capacity(C <sub>20</sub> , 1.75V/cell)	14Ah		
Dimensions	Length	151±2mm (5.95 inches)	
	Width	98±1mm (3.86 inches)	
	Container Height	95±1mm (3.74 inches)	
	Total Height	101±2mm (3.98 inches)	
Approx Weight	3.78 Kg (8.33 lbs)		
Terminal	T1/T2		
Container Material	ABS		
Nominal Capacity(25°C)	13.2Ah	(10hr, 1.32A, 1.75V/cell)	
	12.5Ah	(5hr, 2.41A, 1.75V/cell)	
	10.7Ah	(3hr, 3.57A, 1.75V/cell)	
	9.94Ah	(2hr, 4.97A, 1.75V/cell)	
	8.86Ah	(1hr, 8.86A, 1.70V/cell)	
Short Circuit Current	392A		
Internal Resistance(25°C)	≤14mΩ		
Operating Temp. Range	Discharge	-20 ~ 55°C (-4 ~ 131°F)	
	Charge	0 ~ 40°C (32 ~ 104°F)	
	Storage	-20 ~ 50°C (-4 ~ 122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)		
Max.Charging Current(25°C)	3.5A		
Charge voltage(25°C)	Charge Voltage	Temp. Coefficient	
	Float	2.25~2.30V/cell	-3mV/cell/°C
Effect of temp. to Capacity	Cycle	2.35~2.45V/cell	-5mV/cell/°C
	40°C (104°F)		106%
	25°C (77°F)		100%
Self Discharge	0°C (32°F)		80%
	≤3%/month @ 25°C		



### Layout



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

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	8.33	4.79	3.46	2.76	2.35	2.01	1.58	1.29	0.684
1.80V/cell	8.53	4.88	3.52	2.80	2.38	2.04	1.60	1.31	0.692
1.75V/cell	8.70	4.97	3.57	2.83	2.41	2.06	1.62	1.32	0.700
1.70V/cell	8.86	5.04	3.62	2.87	2.44	2.09	1.64	1.34	0.706

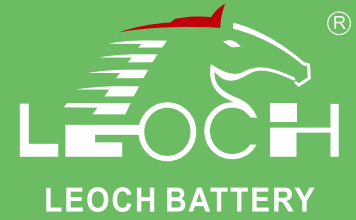
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.2	9.38	6.80	5.43	4.63	3.97	3.14	2.57	1.37
1.80V/cell	16.5	9.53	6.90	5.50	4.69	4.03	3.18	2.60	1.38
1.75V/cell	16.8	9.68	6.99	5.57	4.74	4.07	3.21	2.63	1.40
1.70V/cell	17.1	9.80	7.08	5.63	4.80	4.11	3.24	2.65	1.41



# LPC Series-Cycle Application

## LPC12-13(12V14Ah)



### Applications

- Electric tools
- Mobility Scooter
- Golf trolleys
- Portable lights and instruments
- Electric toys
- Portable power
- Electric wheelchair

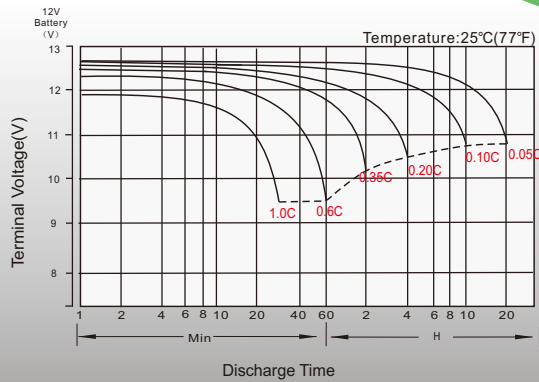
### General Features

- Good cyclic property. Enhanced overcharge endurance and overdischarge recovery property
- Using oxygen recombination technology: maintenance-free
- Lower acid density, excess of electrolyte and larger distance between plates to keep battery at low temperature and slow down plate grid corrosion speed
- Unique plate group configuration, high quality AGM separator and battery management system ensure battery with a longer service life

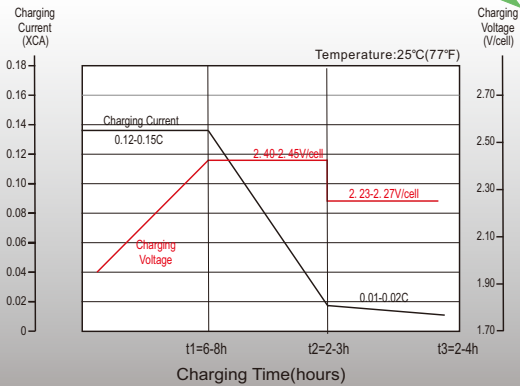
### Standards

- ACC. to BCI standards
- Manufactured in Leoch® IATF 16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

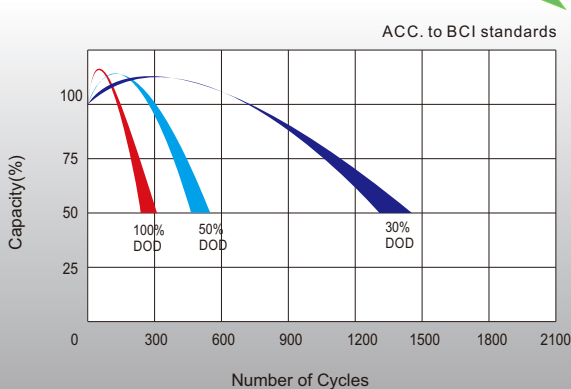
### Discharge Characteristics



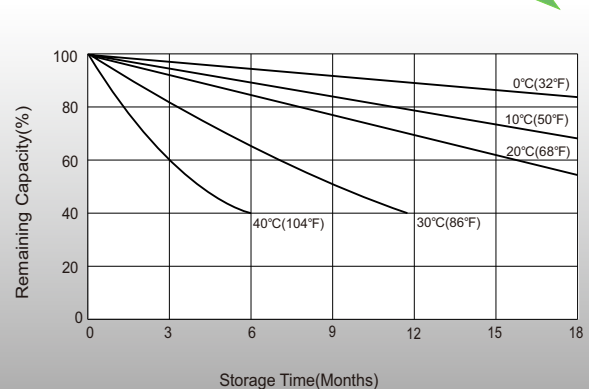
### Charging Characteristics



### Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



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Publication No.: LB-LPC12-13-PD-EN-V2.3-202301