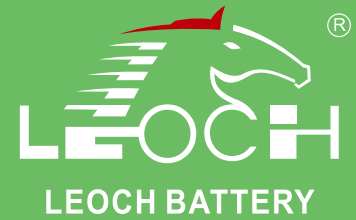




# LPC Series-Cycle Application

## LPC12-5.6(12V5.4Ah)

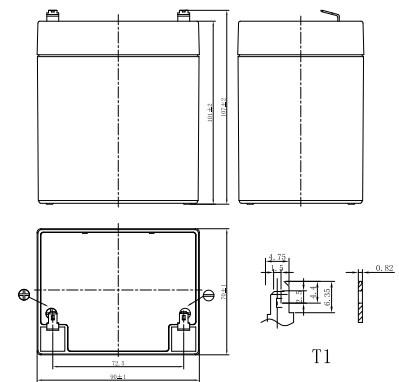


### Specifications

Rated Voltage	12V		
Rated Capacity(C <sub>20</sub> , 1.75V/cell)	5.4Ah		
Dimensions	Length	90±1mm (3.54 inches)	
	Width	70±1mm (2.76 inches)	
	Container Height	101±2mm (3.98 inches)	
	Total Height	107±2mm (4.21 inches)	
Approx Weight	1.80 Kg (3.96 lbs)		
Terminal	T1/T2		
Container Material	ABS		
Nominal Capacity(25°C)	5.11Ah	(10hr, 0.511A, 1.75V/cell)	
	4.65Ah	(5hr, 0.929A, 1.75V/cell)	
	4.14Ah	(3hr, 1.38A, 1.75V/cell)	
	3.84Ah	(2hr, 1.92A, 1.75V/cell)	
	3.55Ah	(1hr, 3.55A, 1.70V/cell)	
Short Circuit Current	151.2A		
Internal Resistance(25°C)	≤25mΩ		
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)	1.35A		
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	3.33	1.85	1.33	1.06	0.905	0.775	0.610	0.499	0.264
1.80V/cell	3.41	1.88	1.36	1.08	0.918	0.787	0.619	0.506	0.267
1.75V/cell	3.48	1.92	1.38	1.09	0.929	0.796	0.626	0.511	0.270
1.70V/cell	3.55	1.95	1.40	1.11	0.942	0.805	0.632	0.516	0.272

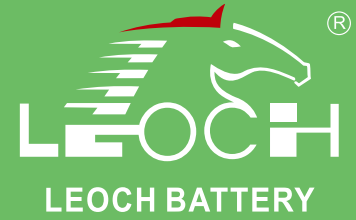
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	6.48	3.62	2.62	2.09	1.79	1.53	1.21	0.992	0.528
1.80V/cell	6.62	3.68	2.66	2.12	1.81	1.55	1.23	1.00	0.534
1.75V/cell	6.72	3.73	2.70	2.15	1.83	1.57	1.24	1.01	0.540
1.70V/cell	6.83	3.78	2.73	2.17	1.85	1.59	1.25	1.02	0.544



# LPC Series-Cycle Application

## LPC12-5.6(12V5.4Ah)



### Applications

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

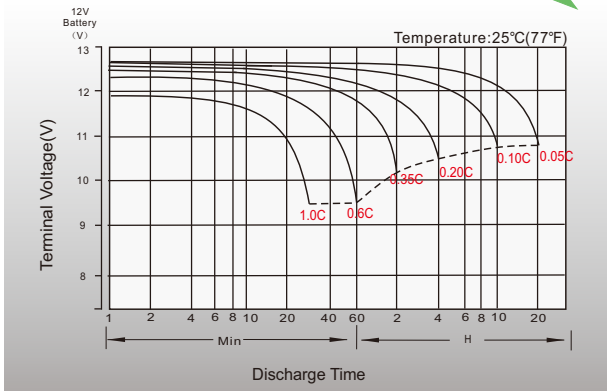
### General Features

- 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

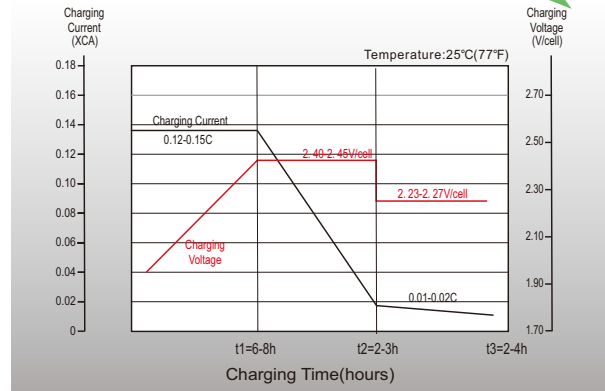
### Standards

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

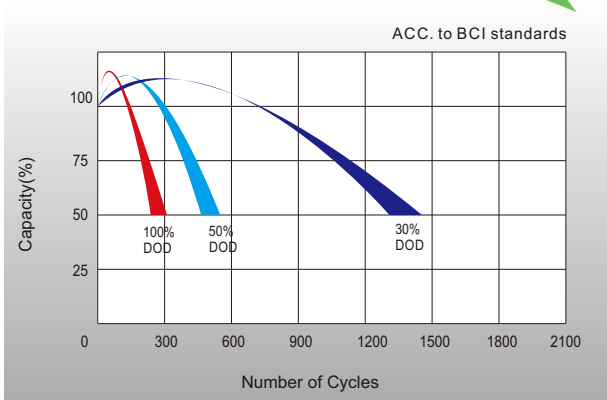
### Discharge Characteristics



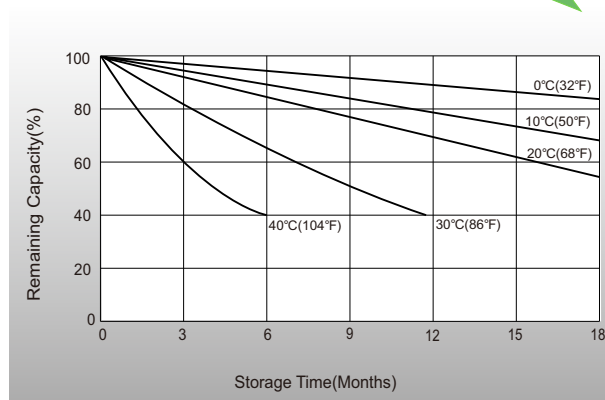
### Charging Characteristics



### Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



### Sales Offices Worldwide

#### China Sales Office

5th Floor, Xinbaohui Bldg., Nanhai Blvd.,  
Nanshan, Shenzhen, China. 518052  
Tel: +86-5.65-86036060 (100 lines)  
Fax: +86-5.65-5.6067209  
E-mail: export@leoch.com

#### HongKong Sales Office

Workshop C, 20/F, TML Tower, No. 3 Hoi Shing Road,  
Tsuen Wan, New Territories, Hong Kong  
Tel: +852 35786666  
Fax: +44 1452 690125  
E-mail: sales.hk@leoch.com

#### Singapore Sales Office

No. 1 Tech Park Crescent,  
Singapore 620131  
Tel: +65 68636078  
Fax: +65 6863 6079  
Email: sales.sg@Leoch.com

#### Australia Sales Office

2/29 Tarlington Place, Smithfield. NSW 2164  
Australia  
Tel: 02 9756 0950  
E-mail: sales.au@leoch.com

#### North America Sales Office

19751 Descartes  
Foothill Ranch, CA 92010, USA  
Tel: 949-588-5853  
Fax: 949-588-5966  
E-mail: sales@leoch.us  
Http://www.leoch.us

#### UK Sales Office

9B Wheatstone Court, Waterwells, Business Park,  
Gloucester, GL2-2AQ, UK United Kingdom  
Tel: +44(0) 1452 729208 / 1452 729696  
Fax: +44 1452 690125  
E-mail: Sales.Europe@leoch.com  
Http://www.leoch.eu

#### EMEA Sales Office

1 Deligiorgi St., 121 31 Athens,  
Greece  
Tel: +30 210 5760318 (2 lines)  
E-mail: support\_EMEA@leoch.com  
Http://www.leoch.eu

#### India Sales Office

Shed no. A-53(b), 2nd Stage of Peenya Industrial Area,  
Bangalore North Taluk, Bangalore-560058, India  
Tel: +91-80-23440018/23440019  
Fax: +91-80-23440017  
E-mail: indiasales@leoch.com



[Http://www.leoch.com](http://www.leoch.com)

© 2023 LEOCH. All rights reserved.

Trademarks and logos are the property of LEOCH and its affiliates unless otherwise noted.  
Subject to revisions without prior notice.

Publication No.: LB-LPC12-5.6-PD-EN-V2.3-202301