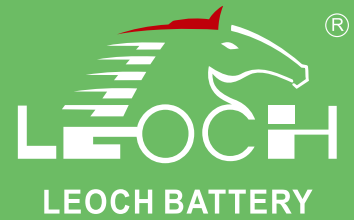




# LPC Series-Cycle Application

## LPC12-20(12V20Ah)

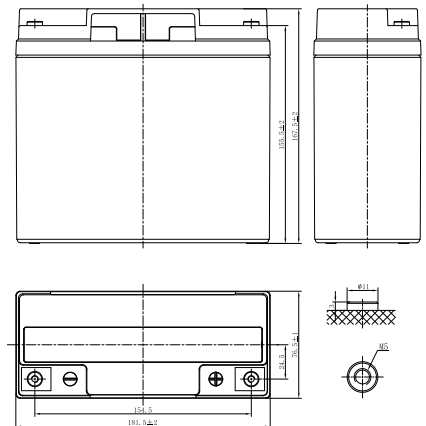


### Specifications

Rated Voltage	12V		
Rated Capacity(C <sub>20</sub> , 1.75V/cell)	20Ah		
Dimensions	Length	181.5±2mm (7.14 inches)	
	Width	76.5±1mm (3.01 inches)	
	Container Height	167.5±2mm (6.59 inches)	
	Total Height	167.5±2mm (6.59 inches)	
Approx Weight	6.00 Kg (13.2 lbs)		
Terminal	M5		
Container Material	ABS		
Nominal Capacity(25°C)	18.9Ah	(10hr, 1.89A, 1.75V/cell)	
	17.3Ah	(5hr, 3.46A, 1.75V/cell)	
	15.2Ah	(3hr, 5.13A, 1.75V/cell)	
	14.3Ah	(2hr, 7.13A, 1.75V/cell)	
	12.8Ah	(1hr, 12.8A, 1.70V/cell)	
Short Circuit Current	560A		
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)	5.0A		
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	12.0	6.88	4.96	3.96	3.37	2.88	2.27	1.85	0.978
1.80V/cell	12.3	7.01	5.05	4.01	3.42	2.93	2.30	1.87	0.989
1.75V/cell	12.6	7.13	5.13	4.07	3.46	2.96	2.33	1.89	1.00
1.70V/cell	12.8	7.24	5.20	4.12	3.51	3.00	2.35	1.91	1.01

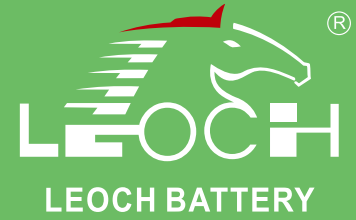
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	23.4	13.5	9.76	7.80	6.65	5.70	4.50	3.67	1.96
1.80V/cell	23.9	13.7	9.90	7.89	6.74	5.79	4.56	3.72	1.98
1.75V/cell	24.3	13.9	10.0	7.99	6.81	5.84	4.61	3.75	2.00
1.70V/cell	24.6	14.1	10.2	8.09	6.90	5.91	4.65	3.79	2.02



# LPC Series-Cycle Application

## LPC12-20(12V20Ah)



### Applications

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

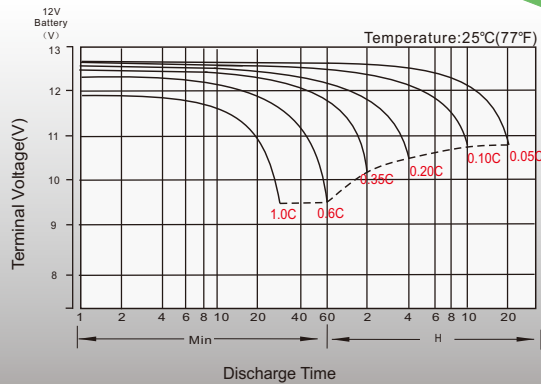
### General Features

- 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

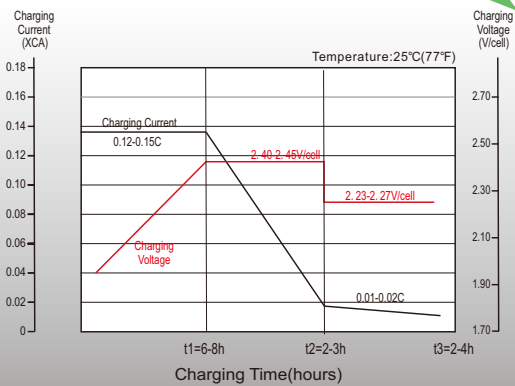
### Standards

- ACC. to BCI standards
- Manufactured in Leoch® IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

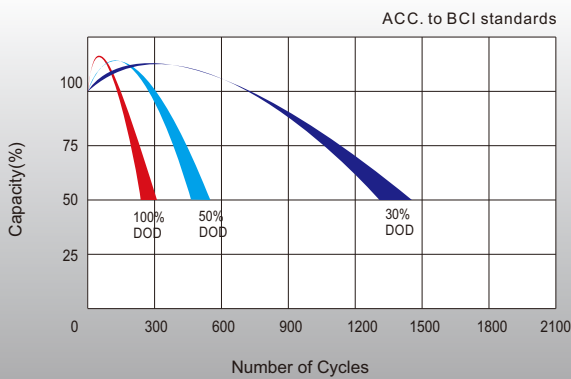
### Discharge Characteristics



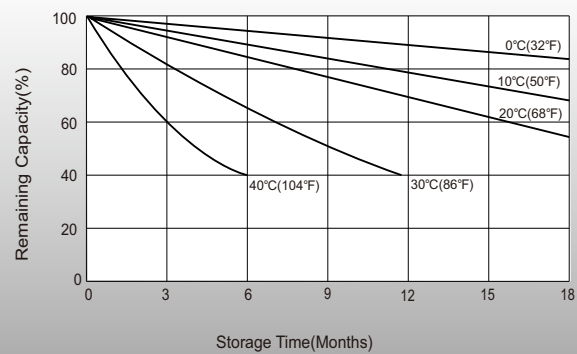
### Charging Characteristics



### Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



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