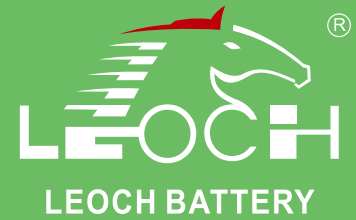




# LPC Series-Cycle Application

## LPC12-150(12V150Ah)

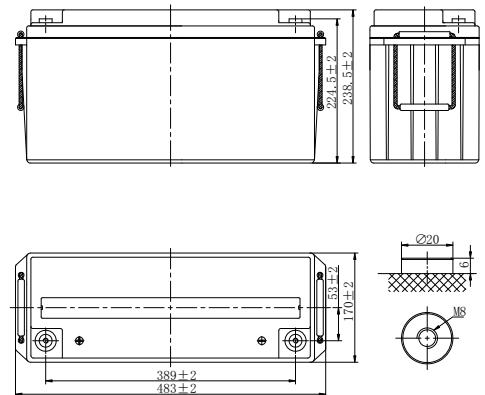


### Specifications

Rated Voltage	12V		
Rated Capacity(C <sub>10</sub> , 1.80V/cell)	150Ah		
Dimensions	Length	483±2mm (12.05 inches)	
	Width	170±2mm (6.61 inches)	
	Container Height	238.5±2mm (8.43 inches)	
	Total Height	238.5±2mm (8.43 inches)	
Approx Weight	43.2Kg (95.2 lbs)		
Terminal	M8		
Container Material	ABS		
Nominal Capacity(25°C)	157.6Ah	(20hr, 7.88A, 1.80V/cell)	
	136.5Ah	(5hr, 27.3A, 1.75V/cell)	
	124.2Ah	(3hr, 41.4A, 1.75V/cell)	
	111.0Ah	(2hr, 55.5A, 1.75V/cell)	
	92.9Ah	(1hr, 92.9A, 1.70V/cell)	
Short Circuit Current	3000A		
Internal Resistance(25°C)	≤3.5mΩ		
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)	37.5A		
Charge voltage(25°C)	Charge Voltage	Temp. Coefficient	
	Float	2.23~2.27V/cell	-3mV/cell/°C
Effect of temp. to Capacity	Cycle	2.40~2.45V/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	83.8	51.1	37.5	29.4	25.5	22.4	17.3	14.3	7.60
1.80V/cell	86.8	52.7	40.7	31.4	26.8	23.4	18.2	15.0	7.88
1.75V/cell	91.1	55.5	41.4	32.0	27.3	23.7	18.3	15.2	7.95
1.70V/cell	92.9	56.6	42.2	32.5	27.8	24.0	18.6	15.3	8.03

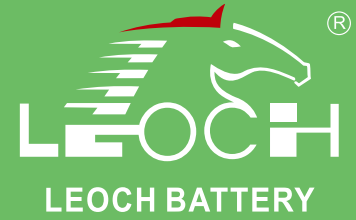
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	162.1	99.3	73.2	57.6	50.2	44.2	34.3	28.5	15.1
1.80V/cell	167.0	102.1	79.1	61.3	52.6	46.1	36.0	29.8	15.7
1.75V/cell	174.4	107.0	80.4	62.2	53.4	46.4	36.1	30.1	15.8
1.70V/cell	177.0	108.7	81.6	63.1	54.1	46.8	36.6	30.3	15.9



# LPC Series-Cycle Application

## LPC12-150(12V150Ah)



### Applications

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

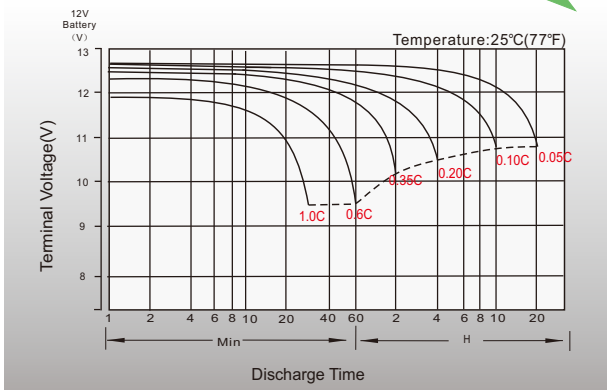
### General Features

- 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

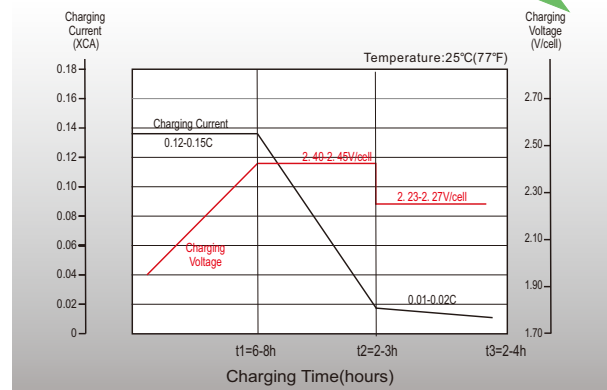
### Standards

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

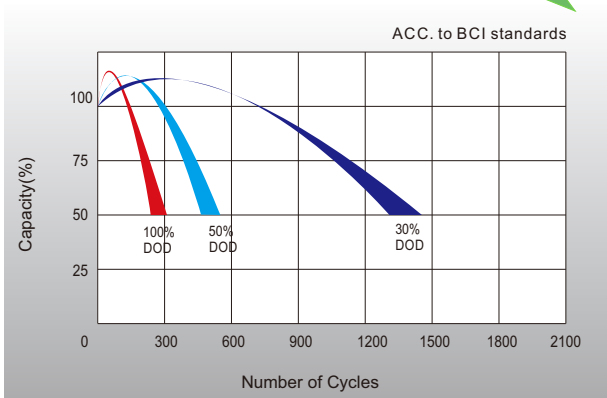
### Discharge Characteristics



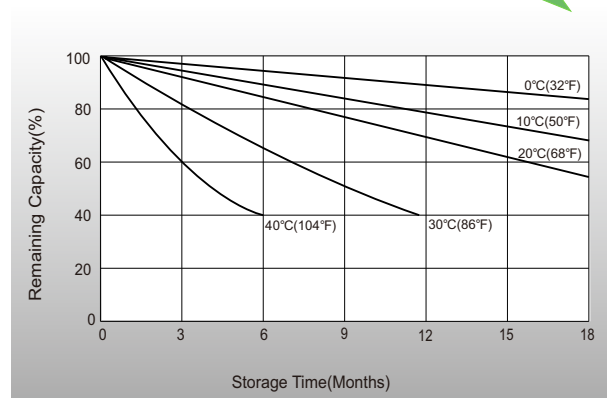
### Charging Characteristics



### Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



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