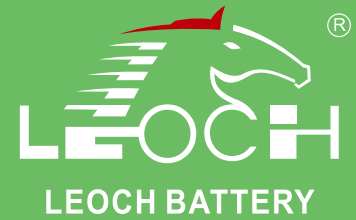




LPC Series-Cycle Application

LPC12-38(12V38Ah)

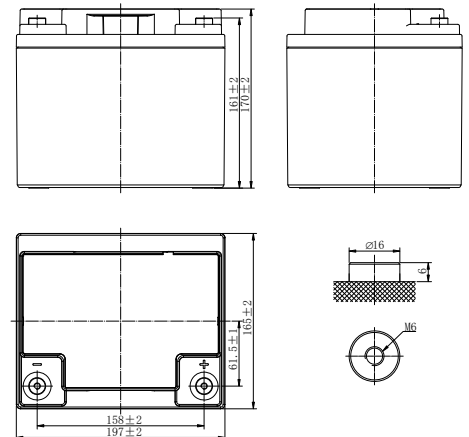


Specifications

Rated Voltage	12V		
Rated Capacity(C ₁₀ , 1.80V/cell)	38Ah		
Dimensions	Length	197±2mm (7.76 inches)	
	Width	165±2mm (6.50 inches)	
	Container Height	170±2mm (6.69 inches)	
	Total Height	170±2mm (6.69 inches)	
Approx Weight	12.0 Kg (26.5 lbs)		
Terminal	M6		
Container Material	ABS		
Nominal Capacity(25°C)	40.0Ah	(20hr, 2.00A, 1.80V/cell)	
	32.6Ah	(5hr, 6.52A, 1.75V/cell)	
	29.2Ah	(3hr, 9.74A, 1.75V/cell)	
	26.4Ah	(2hr, 13.2A, 1.75V/cell)	
	22.4Ah	(1hr, 22.4A, 1.70V/cell)	
Short Circuit Current	950A		
Internal Resistance(25°C)	≤10mΩ		
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)	9.5A		
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%	
	0°C (32°F)	80%	
Self Discharge	≤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	18.9	11.8	8.66	7.08	5.92	5.47	4.17	3.49	1.83
1.80V/cell	20.9	12.8	9.50	7.63	6.37	5.87	4.47	3.80	2.00
1.75V/cell	21.6	13.2	9.74	7.82	6.52	5.92	4.55	3.84	2.02
1.70V/cell	22.4	13.7	9.92	8.02	6.66	5.95	4.63	3.88	2.04

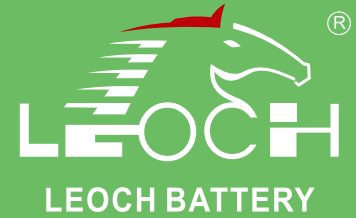
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	40.0	22.7	17.4	13.8	11.5	10.4	8.16	6.86	3.60
1.80V/cell	43.8	24.6	18.6	14.7	12.4	11.1	8.71	7.28	3.82
1.75V/cell	45.1	25.3	19.0	15.1	12.6	11.1	8.88	7.39	3.88
1.70V/cell	46.4	26.0	19.6	15.4	12.8	11.2	8.98	7.49	3.93



LPC Series-Cycle Application

LPC12-38(12V38Ah)



Applications

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

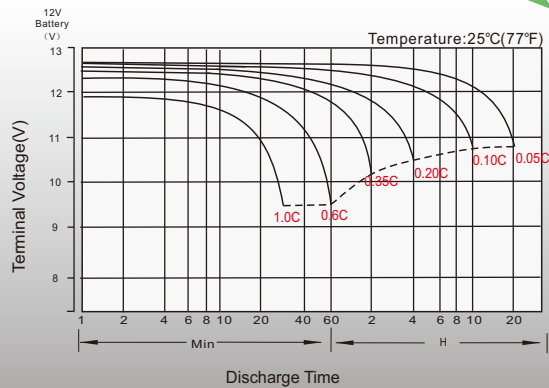
General Features

- 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

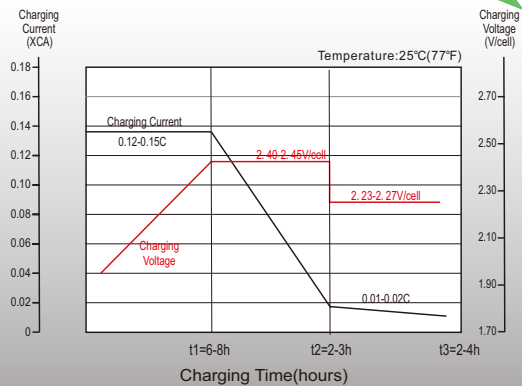
Standards

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

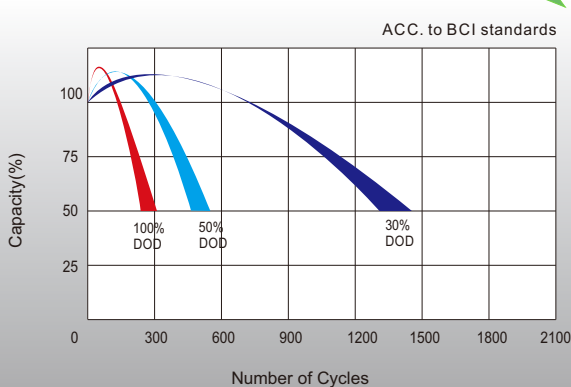
Discharge Characteristics



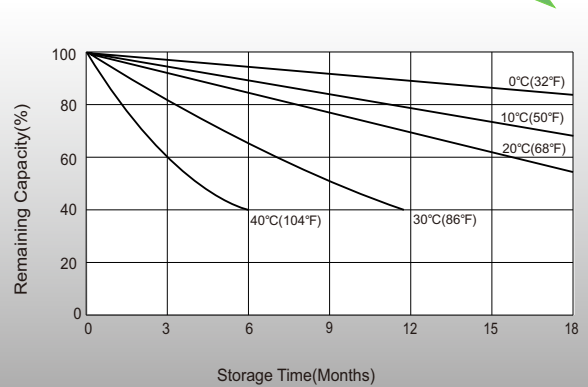
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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