



LPC Series-Cycle Application

LPC12-3.5(12V3.5Ah)

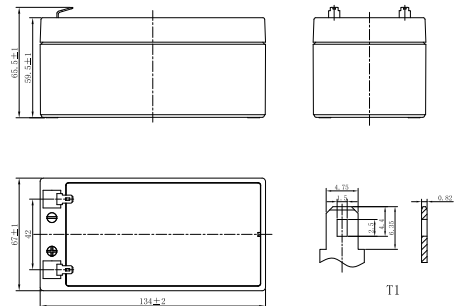


Specifications

Rated Voltage	12V		
Rated Capacity(C ₂₀ , 1.75V/cell)	3.5Ah		
Dimensions	Length	134±2mm (5.28 inches)	
	Width	67±1mm (2.64 inches)	
	Container Height	59.5±1mm (2.34 inches)	
	Total Height	65.5±1mm (2.58 inches)	
Approx Weight	1.19 Kg (2.62 lbs)		
Terminal	T1/T2		
Container Material	ABS		
Nominal Capacity(25°C)	3.31Ah	(10hr, 0.311A, 1.75V/cell)	
	3.01Ah	(5hr, 0.602A, 1.75V/cell)	
	2.62Ah	(3hr, 0.872A, 1.75V/cell)	
	2.40Ah	(2hr, 1.20A, 1.75V/cell)	
	2.07Ah	(1hr, 2.07A, 1.70V/cell)	
Short Circuit Current	98A		
Internal Resistance(25°C)	≤40mΩ		
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)	0.875A		
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	1.94	1.15	0.845	0.681	0.586	0.502	0.396	0.323	0.171
1.80V/cell	1.99	1.18	0.859	0.691	0.595	0.510	0.401	0.328	0.173
1.75V/cell	2.03	1.20	0.872	0.700	0.602	0.516	0.406	0.331	0.175
1.70V/cell	2.07	1.21	0.885	0.710	0.611	0.522	0.410	0.334	0.176

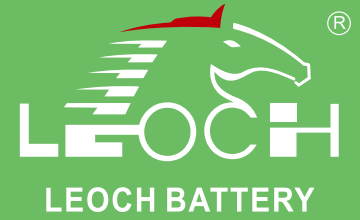
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3.78	2.26	1.66	1.34	1.16	0.993	0.784	0.643	0.342
1.80V/cell	3.86	2.29	1.68	1.36	1.17	1.01	0.795	0.651	0.346
1.75V/cell	3.93	2.33	1.71	1.38	1.19	1.02	0.803	0.657	0.350
1.70V/cell	3.99	2.36	1.73	1.39	1.20	1.03	0.810	0.663	0.353



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Applications

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

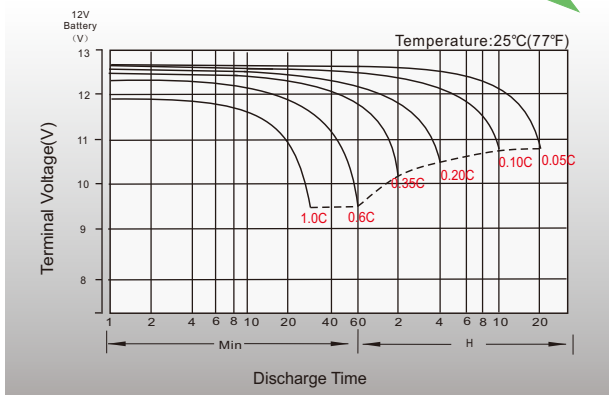
General Features

- 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

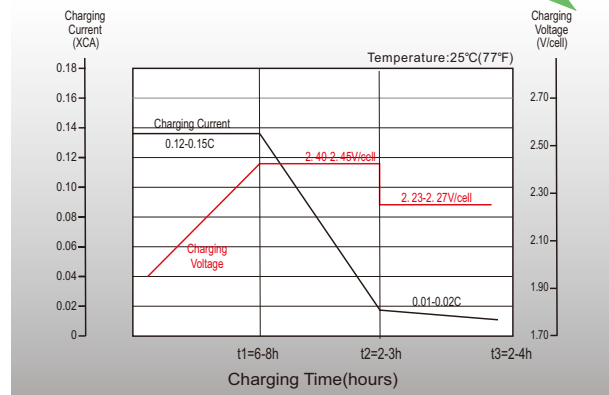
Standards

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

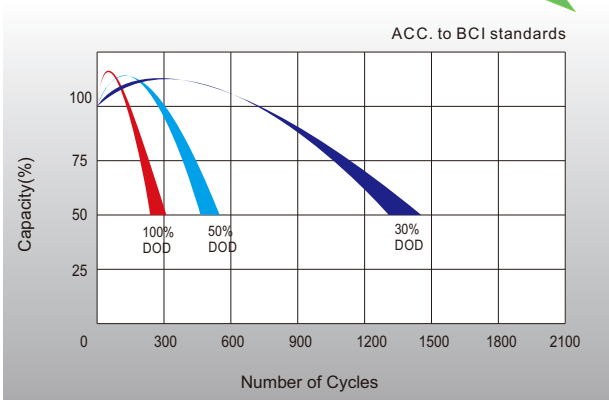
Discharge Characteristics



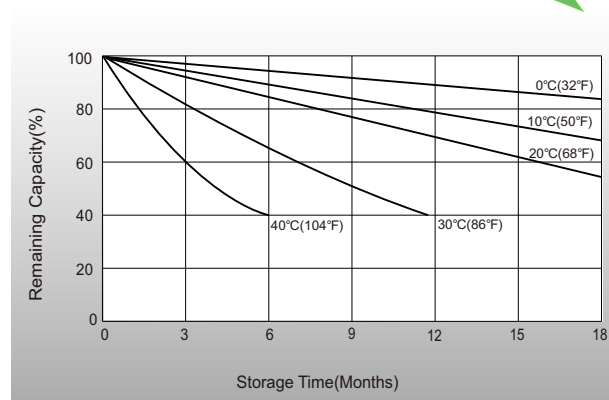
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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