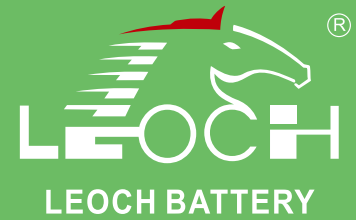




LPC Series-Cycle Application

LPC12-5.6(12V5.4Ah)

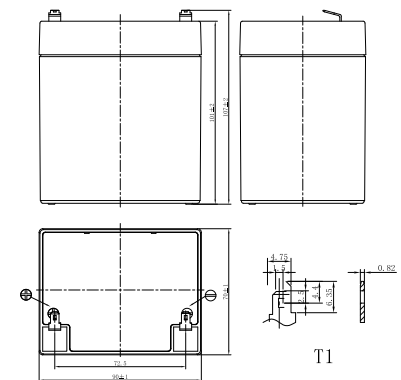


Specifications

Rated Voltage	12V		
Rated Capacity(C ₂₀ , 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

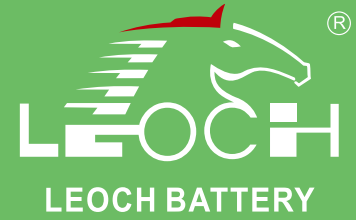
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

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

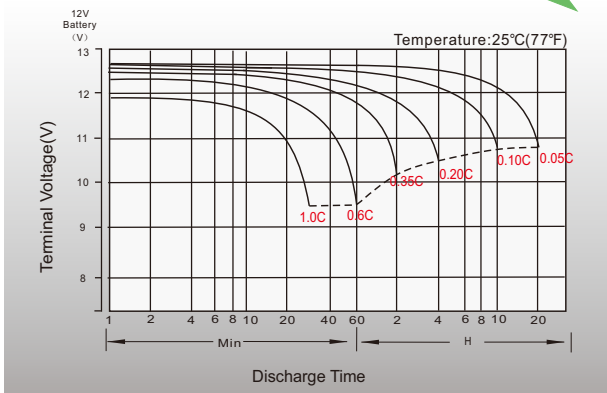
General Features

- 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

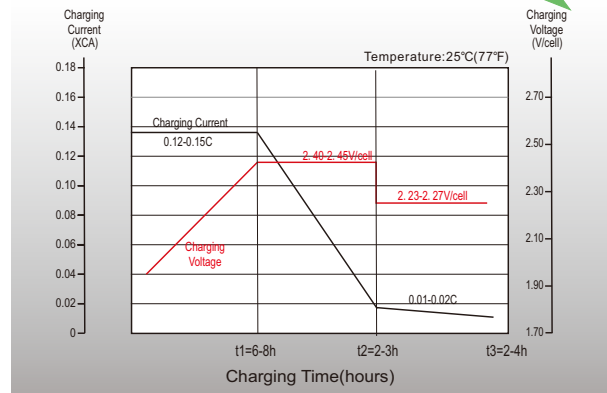
Standards

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

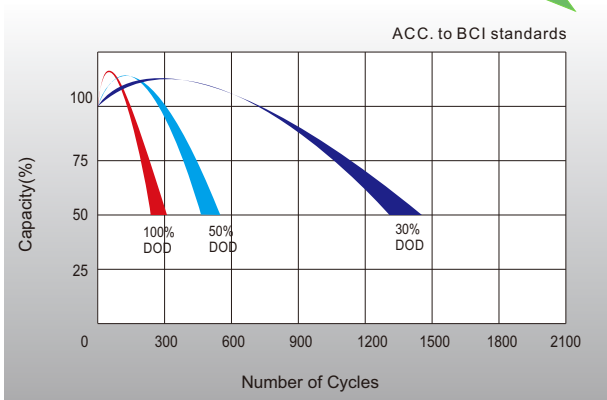
Discharge Characteristics



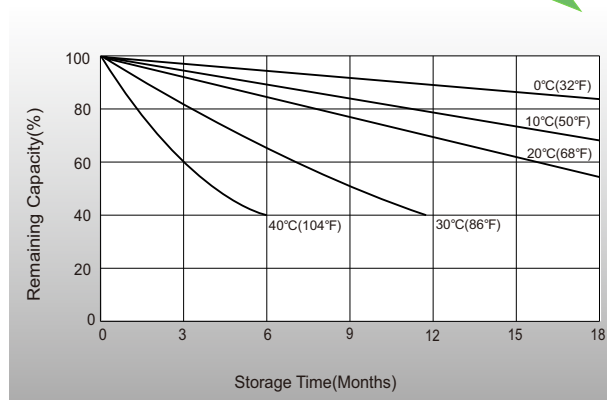
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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