



LPC Series-Cycle Application

LPC6-5.6(6V5.5Ah)

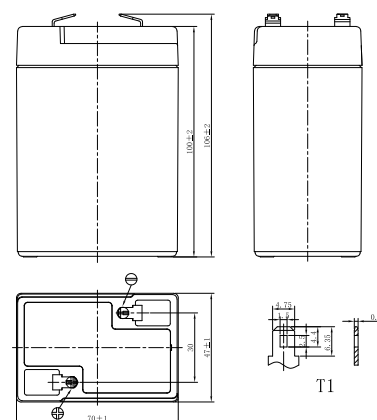


Specifications

Rated Voltage	6V		
Rated Capacity(C ₂₀ , 1.75V/cell)	5.5Ah		
Dimensions	Length	70±1mm (2.76 inches)	
	Width	47±1mm (1.85 inches)	
	Container Height	100±2mm (3.94 inches)	
	Total Height	106±2mm (4.17 inches)	
Approx Weight	0.90 Kg (1.98 lbs)		
Terminal	T1/T2		
Container Material	ABS		
Nominal Capacity(25°C)	5.20Ah	(10hr, 0.520A, 1.75V/cell)	
	4.74Ah	(5hr, 0.947A, 1.75V/cell)	
	4.20Ah	(3hr, 1.40A, 1.75V/cell)	
	3.90Ah	(2hr, 1.95A, 1.75V/cell)	
	3.47Ah	(1hr, 3.47A, 1.70V/cell)	
Short Circuit Current	154A		
Internal Resistance(25°C)	≤16mΩ		
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)	1.38A		
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	3.26	1.88	1.36	1.08	0.921	0.789	0.622	0.508	0.269
1.80V/cell	3.34	1.92	1.38	1.10	0.935	0.801	0.631	0.515	0.272
1.75V/cell	3.41	1.95	1.40	1.11	0.947	0.811	0.637	0.520	0.275
1.70V/cell	3.47	1.98	1.42	1.13	0.960	0.820	0.644	0.526	0.277

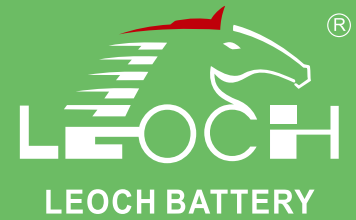
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	6.34	3.69	2.67	2.13	1.82	1.56	1.23	1.01	0.538
1.80V/cell	6.47	3.75	2.71	2.16	1.84	1.58	1.25	1.02	0.544
1.75V/cell	6.58	3.80	2.75	2.19	1.86	1.60	1.26	1.03	0.550
1.70V/cell	6.68	3.85	2.78	2.21	1.89	1.62	1.27	1.04	0.554



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Applications

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

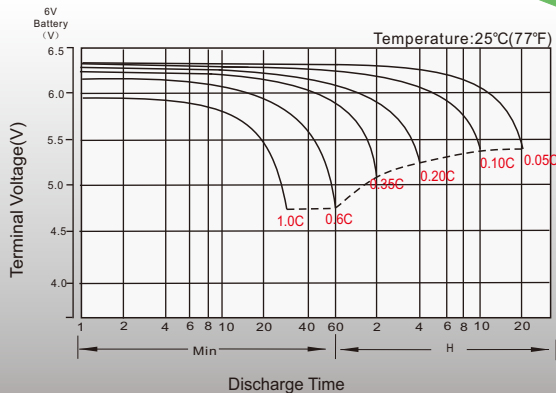
General Features

- 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

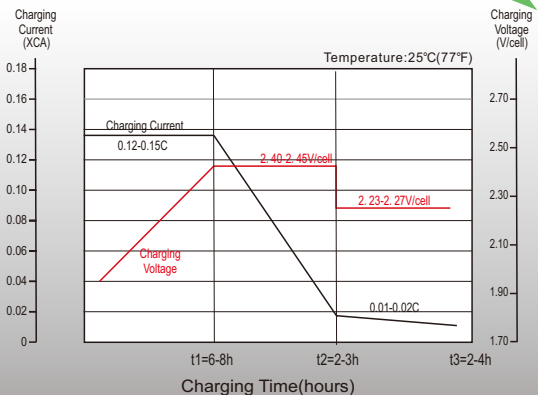
Standards

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

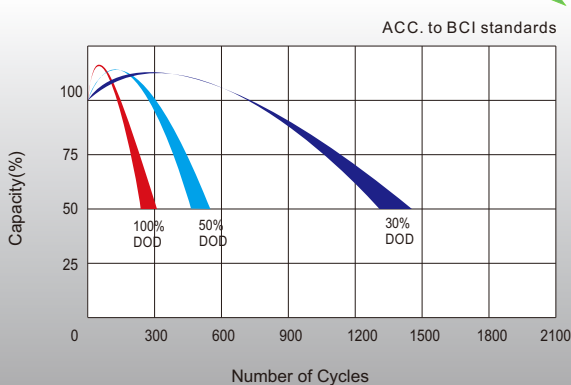
Discharge Characteristics



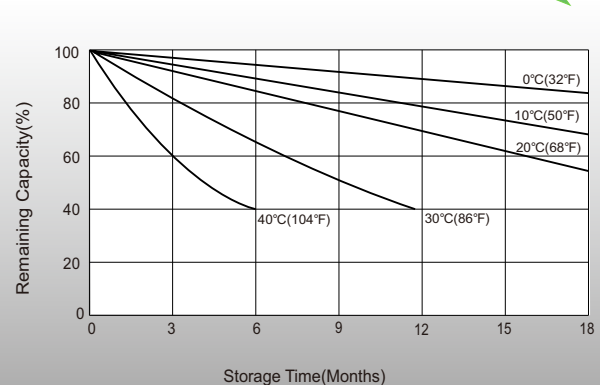
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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