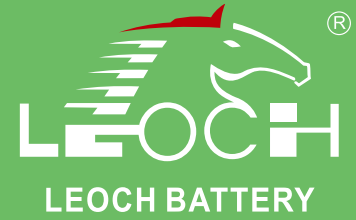




LPC Series-Cycle Application

LPC12-8.0(12V8.0Ah)

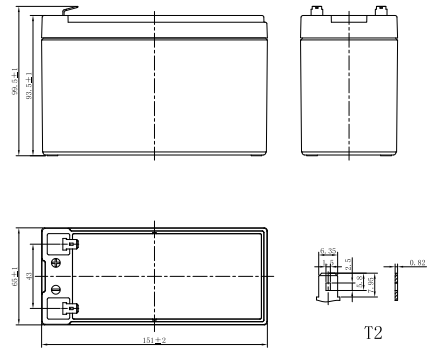


Specifications

Rated Voltage	12V		
Rated Capacity(C ₂₀ , 1.75V/cell)	8.0Ah		
Dimensions	Length	151±2mm (5.95 inches)	
	Width	65±1mm (2.56 inches)	
	Container Height	93.5±1mm (3.68 inches)	
	Total Height	99.5±1mm (3.92 inches)	
Approx Weight	2.50 Kg (5.51 lbs)		
Terminal	T1/T2		
Container Material	ABS		
Nominal Capacity(25°C)	7.57Ah	(10hr, 0.757A, 1.75V/cell)	
	7.00Ah	(5hr, 1.40A, 1.75V/cell)	
	6.54Ah	(3hr, 2.18A, 1.75V/cell)	
	6.22Ah	(2hr, 3.11A, 1.75V/cell)	
	5.73Ah	(1hr, 5.73A, 1.70V/cell)	
Short Circuit Current	224A		
Internal Resistance(25°C)	≤20mΩ		
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)	2.0A		
Charge voltage(25°C)	Float	2.25~2.30V/cell	-3mV/cell/°C
	Cycle	2.35~2.45V/cell	-5mV/cell/°C
Effect of temp. to Capacity	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	5.38	2.99	2.11	1.64	1.37	1.15	0.904	0.739	0.391
1.80V/cell	5.51	3.05	2.15	1.67	1.39	1.17	0.917	0.749	0.396
1.75V/cell	5.63	3.11	2.18	1.69	1.40	1.18	0.927	0.757	0.400
1.70V/cell	5.73	3.15	2.21	1.71	1.42	1.19	0.937	0.764	0.403

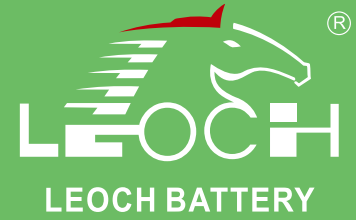
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	10.5	5.86	4.15	3.24	2.70	2.27	1.79	1.47	0.782
1.80V/cell	10.7	5.96	4.21	3.28	2.73	2.30	1.82	1.49	0.791
1.75V/cell	10.9	6.05	4.27	3.32	2.76	2.33	1.84	1.50	0.800
1.70V/cell	11.0	6.12	4.32	3.36	2.80	2.35	1.85	1.52	0.807



LPC Series-Cycle Application

LPC12-8.0(12V8.0Ah)



Applications

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

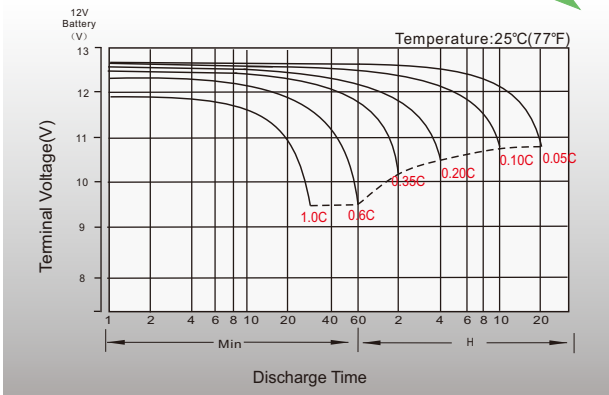
General Features

- 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

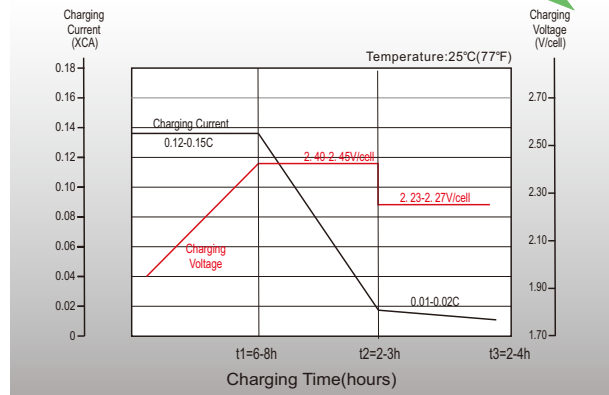
Standards

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

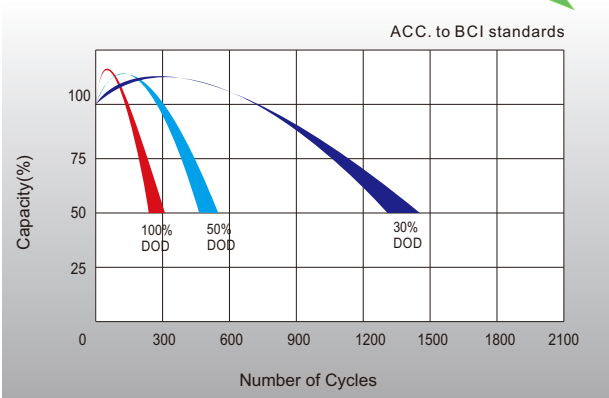
Discharge Characteristics



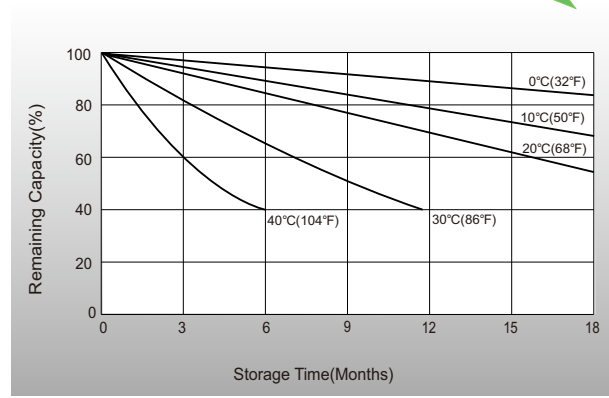
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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