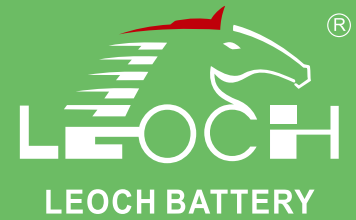




LPC Series-Cycle Application

LPC12-42(12V42Ah)

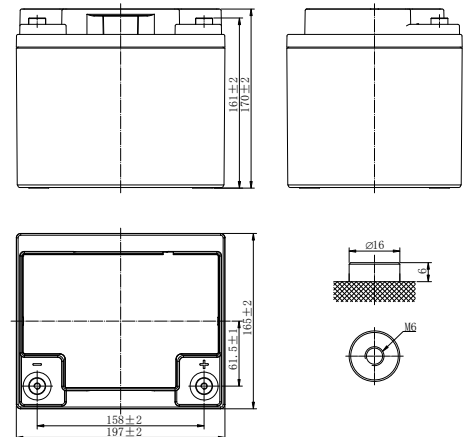


Specifications

Rated Voltage	12V		
Rated Capacity(C ₁₀ , 1.80V/cell)	42Ah		
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	14.6 Kg (32.2 lbs)		
Terminal	M6		
Container Material	ABS		
Nominal Capacity(25°C)	46.0Ah	(20hr, 2.30A, 1.80V/cell)	
	36.8Ah	(5hr, 7.35A, 1.75V/cell)	
	33.3Ah	(3hr, 11.1A, 1.75V/cell)	
	29.8Ah	(2hr, 14.9A, 1.75V/cell)	
	26.3Ah	(1hr, 26.3A, 1.70V/cell)	
Short Circuit Current	1050A		
Internal Resistance(25°C)	≤9.0mΩ		
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)	11.25A		
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%	
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	22.1	13.3	10.0	7.98	6.67	5.80	4.70	3.94	2.18
1.80V/cell	24.5	14.5	10.8	8.61	7.19	6.22	5.04	4.20	2.30
1.75V/cell	25.4	14.9	11.1	8.82	7.35	6.35	5.13	4.27	2.33
1.70V/cell	26.3	15.4	11.5	9.04	7.51	6.48	5.23	4.33	2.36

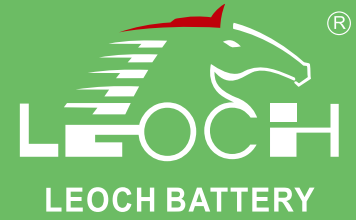
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	43.0	25.9	19.6	15.7	13.2	11.4	9.33	7.78	4.33
1.80V/cell	47.3	28.1	21.2	16.9	14.1	12.2	9.89	8.30	4.57
1.75V/cell	48.7	28.8	21.7	17.2	14.4	12.4	10.1	8.42	4.62
1.70V/cell	50.1	29.6	22.2	17.5	14.7	12.7	10.3	8.53	4.68



LPC Series-Cycle Application

LPC12-42(12V42Ah)



Applications

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

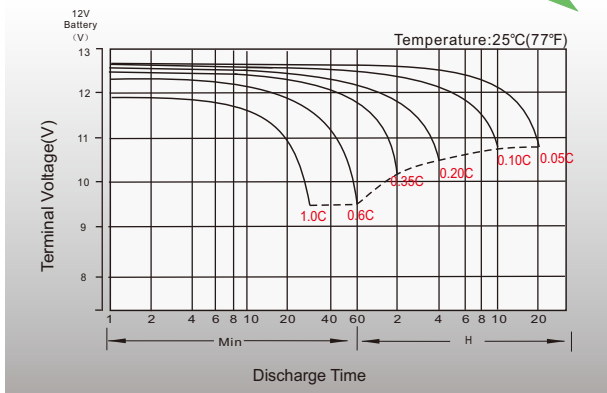
General Features

- 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

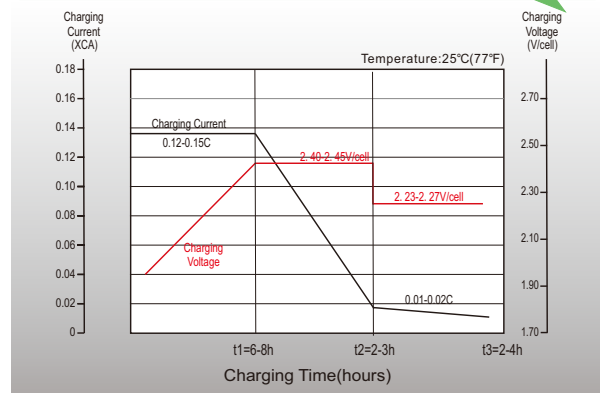
Standards

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

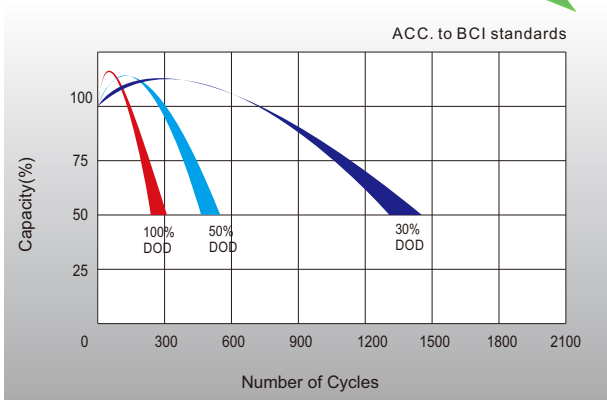
Discharge Characteristics



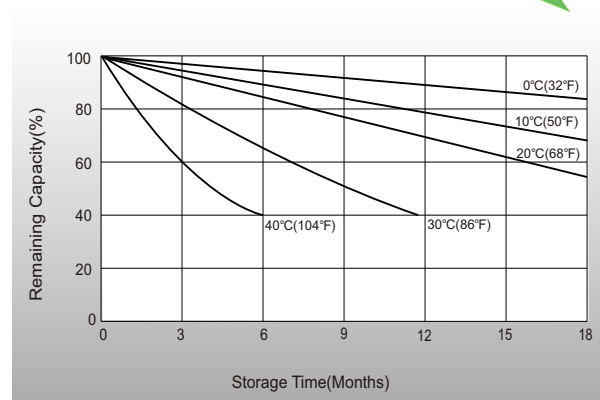
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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