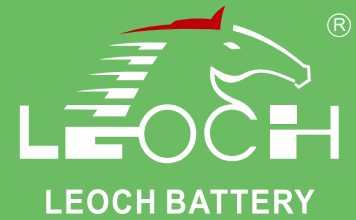




LPC Series-Cycle Application

LPC12-90(12V90Ah)

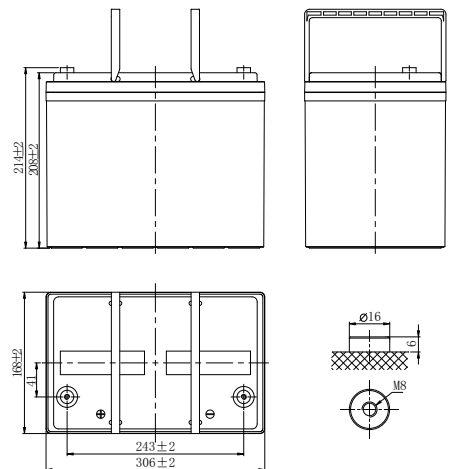


Specifications

Rated Voltage	12V		
Rated Capacity(C ₁₀ , 1.80V/cell)	90Ah		
Dimensions	Length	306±2mm (12.0 inches)	
	Width	168±2mm (6.61 inches)	
	Container Height	208±2mm (8.19 inches)	
	Total Height	214±2mm (8.43 inches)	
Approx Weight	26.8 Kg (59.1 lbs)		
Terminal	M8		
Container Material	ABS		
Nominal Capacity(25°C)	94.6 Ah	(20hr, 4.73A, 1.80V/cell)	
	82.0 Ah	(5hr, 16.4A, 1.75V/cell)	
	74.7Ah	(3hr, 24.9A, 1.75V/cell)	
	66.6Ah	(2hr, 33.3A, 1.75V/cell)	
	55.7Ah	(1hr, 55.7A, 1.70V/cell)	
Short Circuit Current	2070A		
Internal Resistance(25°C)	≤5.5mΩ		
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)	22.5A		
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%	
	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	50.3	30.6	22.5	17.6	15.3	13.5	10.4	8.60	4.56
1.80V/cell	52.1	31.6	24.4	18.8	16.1	14.5	10.9	9.00	4.73
1.75V/cell	54.6	33.3	24.9	19.2	16.4	14.6	11.0	9.09	4.77
1.70V/cell	55.7	34.0	25.3	19.5	16.7	14.7	11.1	9.18	4.82

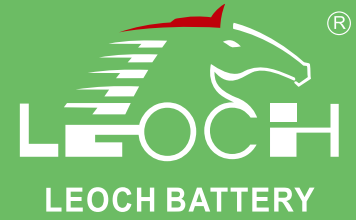
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	97.2	59.6	43.9	34.6	30.1	26.6	20.6	17.1	9.08
1.80V/cell	100.2	61.2	47.4	36.8	31.6	28.5	21.6	17.9	9.39
1.75V/cell	104.7	64.2	48.2	37.3	32.0	28.7	21.7	18.0	9.48
1.70V/cell	106.2	65.2	49.0	37.9	32.4	28.8	22.0	18.2	9.56



LPC Series-Cycle Application

LPC12-90(12V90Ah)



Applications

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

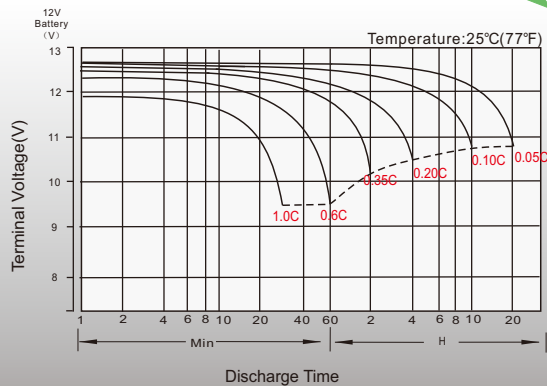
General Features

- 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

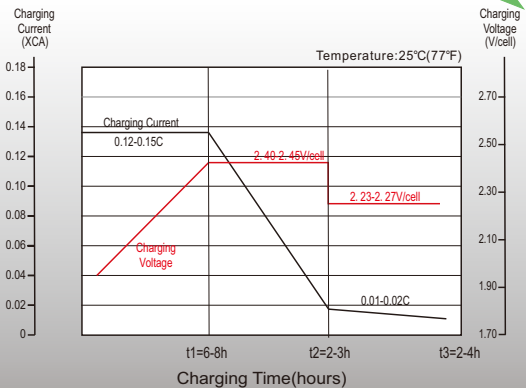
Standards

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

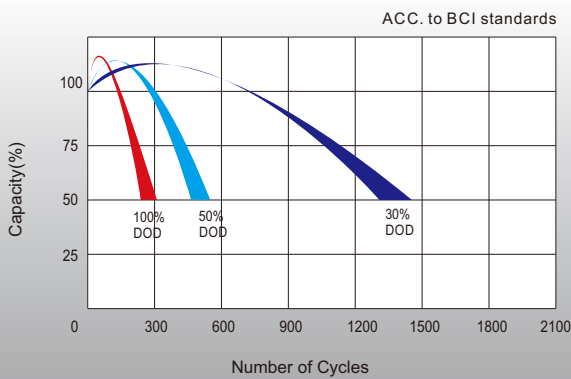
Discharge Characteristics



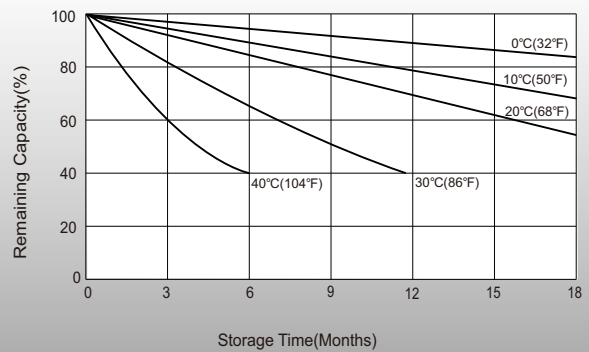
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



distributed by: Power Storage Deutschland GmbH

+49 (0)6081 96582-0

info@psd-power.de



www.psd-power.de



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