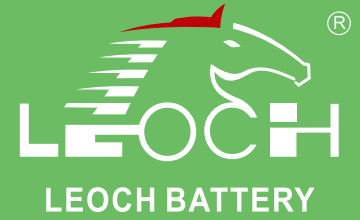




# LPC Series-Cycle Application

## LPC12-33(12V33Ah)

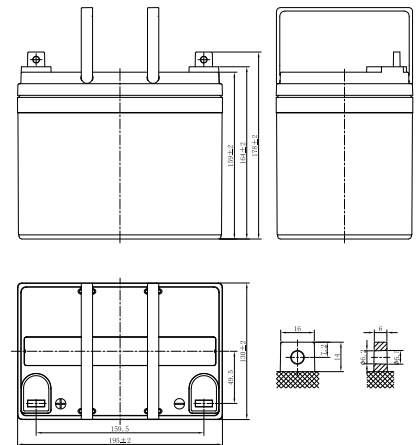


### Specifications

Rated Voltage	12V		
Rated Capacity(C <sub>20</sub> , 1.75V/cell)	33Ah		
Dimensions	Length	195±2mm (7.68 inches)	
	Width	130±2mm (5.12 inches)	
	Container Height	164±2mm (6.46 inches)	
	Total Height	178±2mm (7.01 inches)	
Approx Weight	10.5 Kg (23.2 lbs)		
Terminal	T5		
Container Material	ABS		
Nominal Capacity(25°C)	31.2Ah	(10hr, 3.12A, 1.75V/cell)	
	28.4Ah	(5hr, 5.68A, 1.75V/cell)	
	25.3Ah	(3hr, 8.42A, 1.75V/cell)	
	23.4Ah	(2hr, 11.7A, 1.75V/cell)	
	20.3Ah	(1hr, 20.3A, 1.70V/cell)	
Short Circuit Current	825A		
Internal Resistance(25°C)	≤12mΩ		
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)	8.25A		
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	19.0	11.3	8.15	6.50	5.53	4.73	3.73	3.05	1.61
1.80V/cell	19.5	11.5	8.29	6.59	5.61	4.81	3.78	3.09	1.63
1.75V/cell	19.9	11.7	8.42	6.68	5.68	4.86	3.82	3.12	1.65
1.70V/cell	20.3	11.9	8.54	6.77	5.76	4.92	3.86	3.15	1.66

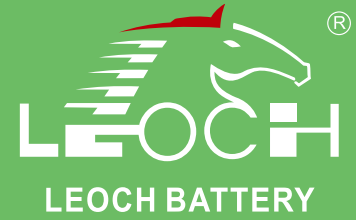
### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	37.0	22.1	16.0	12.8	10.9	9.37	7.39	6.06	3.23
1.80V/cell	37.8	22.5	16.3	13.0	11.1	9.50	7.49	6.14	3.26
1.75V/cell	38.4	22.8	16.5	13.1	11.2	9.60	7.57	6.19	3.30
1.70V/cell	39.0	23.1	16.7	13.3	11.3	9.70	7.64	6.25	3.33



# LPC Series-Cycle Application

## LPC12-33(12V33Ah)



### Applications

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

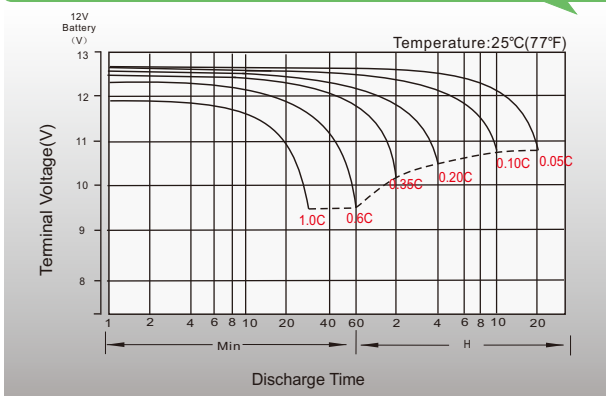
### General Features

- 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

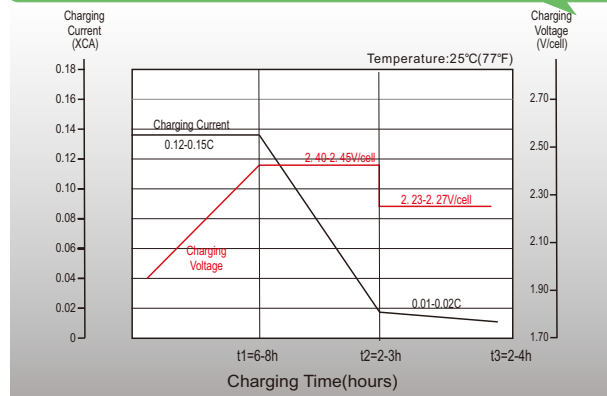
### Standards

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

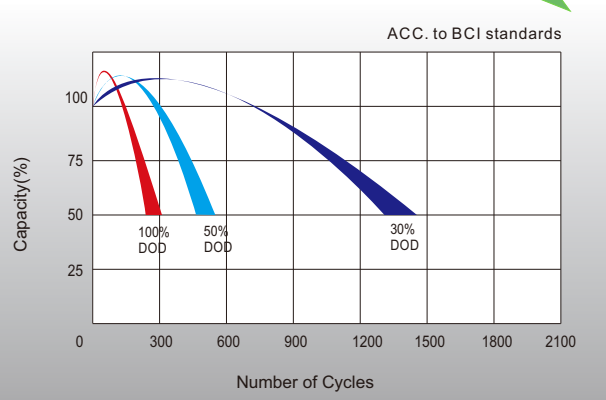
### Discharge Characteristics



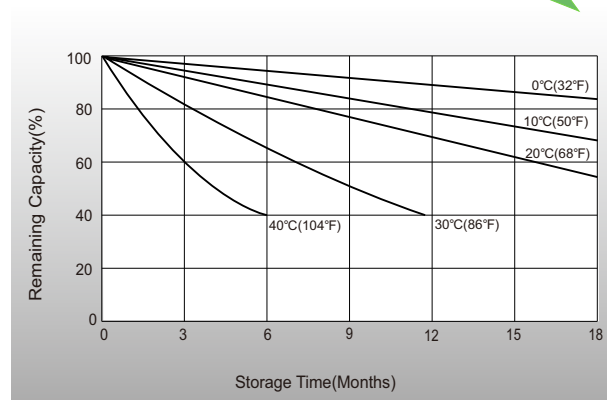
### Charging Characteristics



### 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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Publication No.: LB-LPC12-33-PD-EN-V2.3-202301