



LPC Series-Cycle Application

LPC12-24H(12V28Ah)

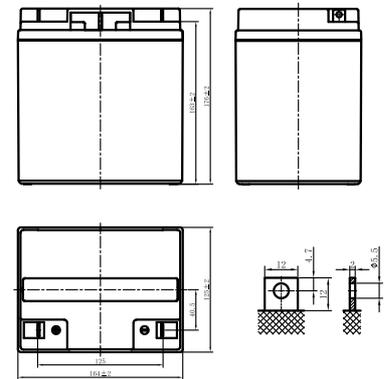


Specifications

Rated Voltage	12V		
Rated Capacity(C ₂₀ , 1.75V/cell)	28Ah		
Dimensions	Length	164±2mm (6.46 inches)	
	Width	125±1mm (4.92 inches)	
	Container Height	176±2mm (6.93 inches)	
	Total Height	176±2mm (6.93 inches)	
Approx Weight	9.10 Kg (20.1 lbs)		
Terminal	T3-A		
Container Material	ABS		
Nominal Capacity(25°C)	26.0Ah	(10hr, 2.60A, 1.75V/cell)	
	23.8Ah	(5hr, 4.76A, 1.75V/cell)	
	21.4Ah	(3hr, 7.14A, 1.75V/cell)	
	19.0Ah	(2hr, 9.52A, 1.75V/cell)	
	17.08Ah	(1hr, 17.0A, 1.70V/cell)	
Short Circuit Current	700A		
Internal Resistance(25°C)	≤14mΩ		
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)	7.0A		
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	15.9	9.18	6.91	5.62	4.63	4.02	3.13	2.54	1.37
1.80V/cell	16.3	9.35	7.03	5.70	4.70	4.08	3.18	2.57	1.38
1.75V/cell	16.6	9.52	7.14	5.78	4.76	4.13	3.21	2.60	1.40
1.70V/cell	17.0	9.66	7.24	5.86	4.83	4.18	3.24	2.63	1.41

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	31.0	18.0	13.6	11.1	9.15	7.95	6.21	5.05	2.74
1.80V/cell	31.6	18.3	13.8	11.2	9.27	8.07	6.29	5.11	2.77
1.75V/cell	32.2	18.5	14.0	11.4	9.37	8.15	6.35	5.16	2.80
1.70V/cell	32.6	18.8	14.1	11.5	9.49	8.23	6.41	5.21	2.82



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Applications

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

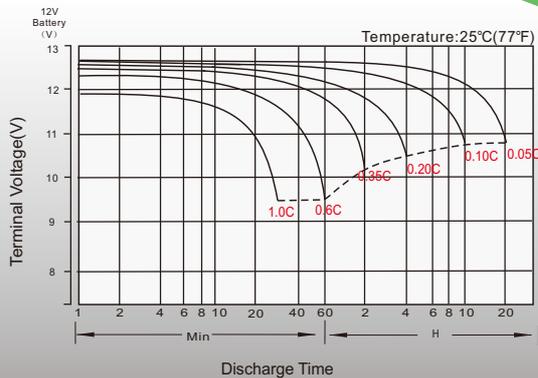
General Features

- 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

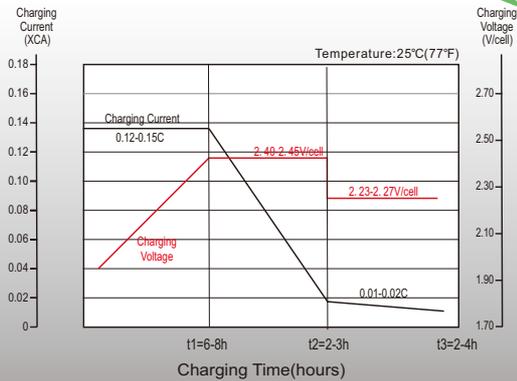
Standards

- ACC. to BCI standards
- Manufactured in Leoch® IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

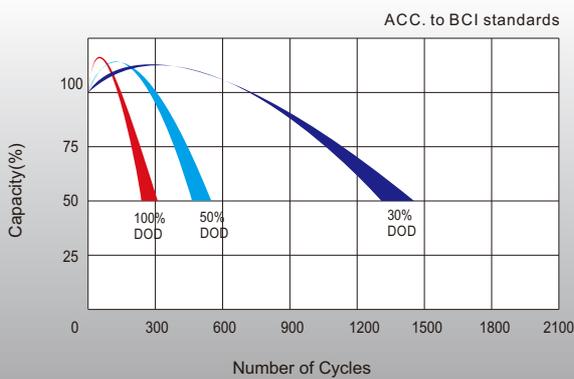
Discharge Characteristics



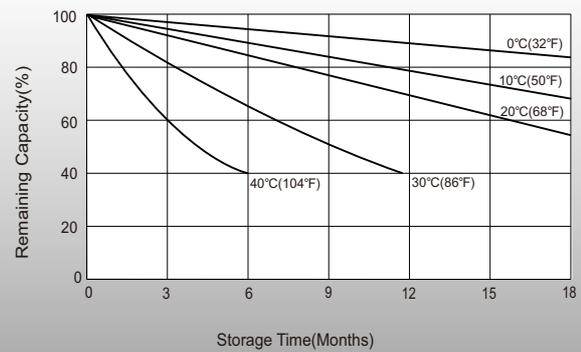
Charging Characteristics



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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