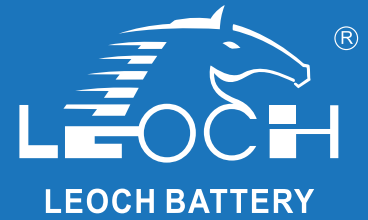




LPCG Series-Deep Cycle Gel

LPCG12-100(12V100Ah)

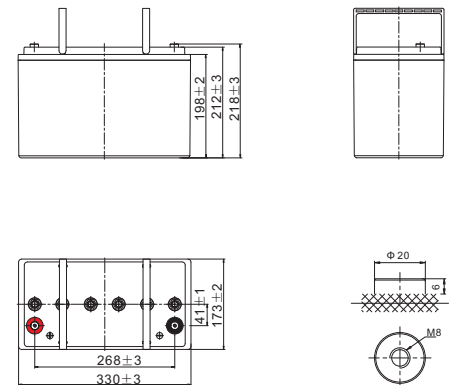


Specifications

Rated Voltage	12V	
Nominal Capacity	100Ah (C ₂₀ , 1.80V/cell)	
Dimension	Length	330±3mm (13.0 inches)
	Width	173±2mm (6.81 inches)
	Container Height	212±3mm (8.35 inches)
	Total Height	218±3mm (8.58 inches)
Approx Weight	32.0 Kg (70.5lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	100.0 Ah	(20hr, 5.00A, 1.80V/cell)
	88.8 Ah	(10hr, 8.88A, 1.80V/cell)
	80.0 Ah	(5hr, 16.0A, 1.75V/cell)
	72.0 Ah	(3hr, 24.0A, 1.75V/cell)
	56.3 Ah	(1hr, 56.3A, 1.67V/cell)
Max. Discharge Current	888A (5s)	
Internal Resistance (25°C)	Approx 6.40mΩ	
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)	
Cycle Use	Initial Charging Current less than 22.0A. Voltage 14.4V~14.7V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 22.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	LPCG series batteries may be stored for up to 9 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

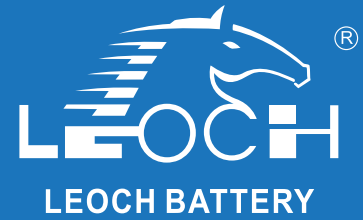
F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	43.1	26.5	21.0	17.0	14.8	12.9	10.4	8.62	4.66
1.80V/cell	47.7	29.3	23.1	18.4	15.6	13.7	10.9	8.88	5.00
1.75V/cell	53.6	31.4	24.0	19.1	16.0	14.1	11.0	9.06	5.06
1.67V/cell	56.3	32.6	24.8	19.4	16.5	14.4	11.2	9.15	5.12
1.60V/cell	58.1	33.3	25.1	19.8	16.8	14.6	11.3	9.24	5.20

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	83.8	51.9	41.2	33.5	29.0	25.4	11.8	17.1	9.25
1.80V/cell	92.2	56.9	45.0	36.2	30.4	26.8	12.0	17.4	9.85
1.75V/cell	102.6	60.8	46.7	37.2	31.3	27.6	12.2	17.9	9.95
1.67V/cell	106.6	62.6	47.8	37.6	32.0	27.9	12.4	18.0	10.2
1.60V/cell	109.0	63.4	48.1	38.1	32.5	28.3	12.6	18.1	10.3

LPCG Series-Deep Cycle Gel

LPCG12-100(12V100Ah)



Applications

- Electrically powered wheelchair
- Vehicle in place of walking
- Lawn-mower
- Golf trolleys and golf cart
- Railway and marine systems

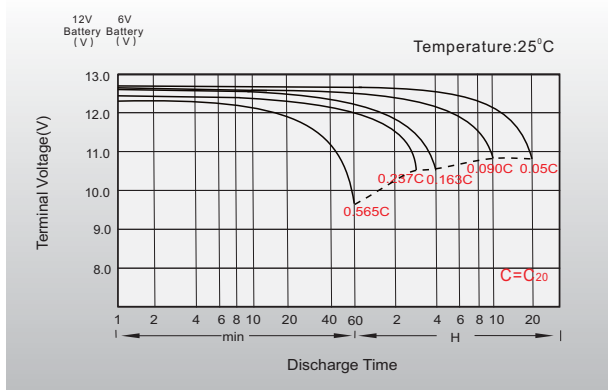
General Features

- Special plate design, long cycle life
- ≥ 600 Cycles @ 80%DOD
- Operation temperature $-20 \sim 55^{\circ}\text{C}$
- $\leq 2\%$ Self discharge per month
- Good deep discharge resilience performance

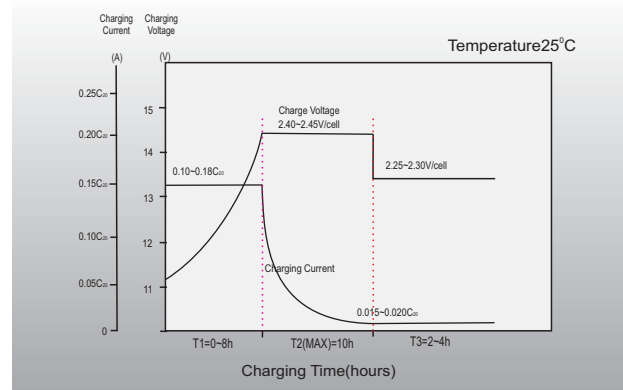
Standards

- IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- UL Certified
- Manufactured in Leoch® IATF16949, ISO 9001, ISO 14001 and OHSAS 18001 certified production facilities

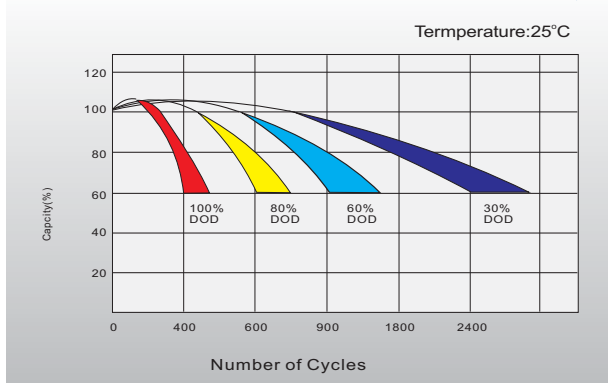
Discharge Characteristics



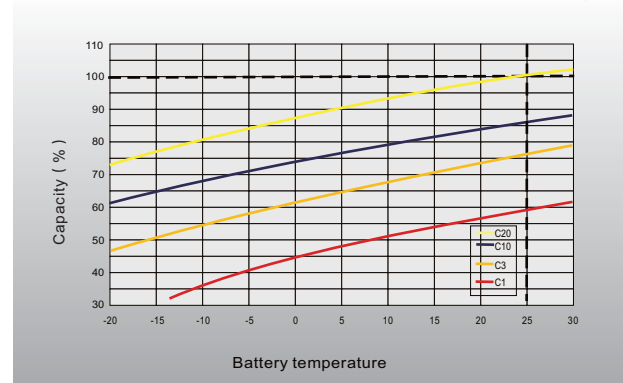
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



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