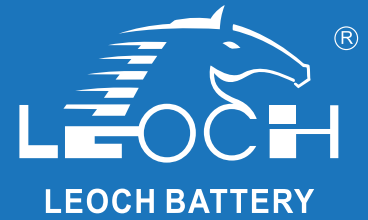




LPCG Series-Deep Cycle Gel

LPCG12-55(12V55Ah)

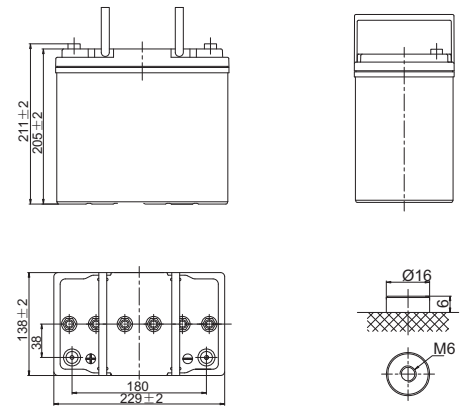


Specifications

Rated Voltage	12V	
Nominal Capacity	55Ah (C ₂₀ , 1.80V/cell)	
Dimension	Length	229±2mm (9.01 inches)
	Width	138±1mm (5.43 inches)
	Container Height	205±2mm (8.07 inches)
	Total Height	211±2mm (8.31 inches)
Approx Weight	16.6 Kg (36.6 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	55.0 Ah	(20hr, 2.75A, 1.80V/cell)
	47.0 Ah	(10hr, 4.70A, 1.80V/cell)
	41.6 Ah	(5hr, 8.32A, 1.75V/cell)
	37.2 Ah	(3hr, 12.4A, 1.75V/cell)
	28.9 Ah	(1hr, 28.9A, 1.67V/cell)
Max. Discharge Current	470A (5s)	
Internal Resistance (25°C)	Approx 10mΩ	
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 11.8A. Voltage 14.4V~14.7V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 11.8A. 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)

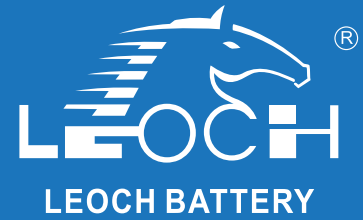
F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	22.1	13.6	10.8	8.82	7.66	6.71	5.43	4.61	2.63
1.80V/cell	24.4	15.0	11.9	9.59	8.07	7.09	5.67	4.70	2.75
1.75V/cell	27.4	16.2	12.4	9.87	8.32	7.32	5.76	4.84	2.83
1.67V/cell	28.9	16.8	12.8	10.1	8.55	7.44	5.86	4.89	2.90
1.60V/cell	29.7	17.1	13.0	10.2	8.74	7.56	5.91	4.94	2.94

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	26.7	21.2	17.3	15.0	13.3	10.7	9.12	5.22
1.80V/cell	47.2	29.2	23.2	18.8	15.9	13.9	11.2	9.29	5.46
1.75V/cell	52.5	31.2	24.1	19.3	16.3	14.4	11.4	9.59	5.61
1.67V/cell	54.6	32.1	24.6	19.5	16.6	14.6	11.5	9.59	5.74
1.60V/cell	55.8	32.6	24.8	19.7	16.9	14.7	11.6	9.68	5.80

LPCG Series-Deep Cycle Gel

LPCG12-55(12V55Ah)



Applications

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

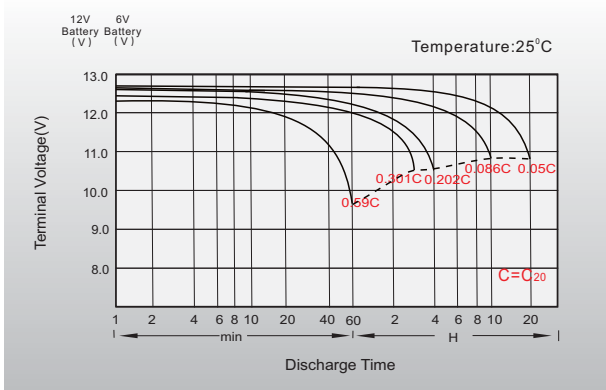
General Features

- 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

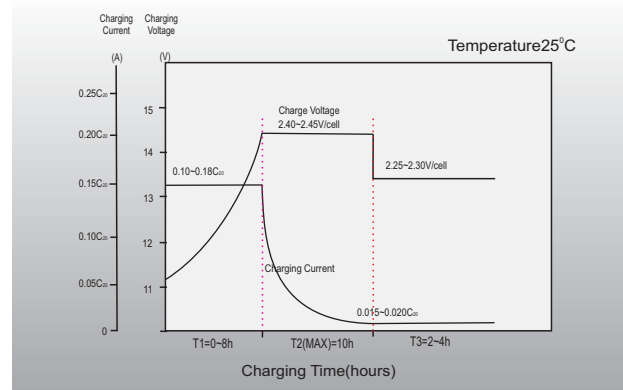
Standards

- 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

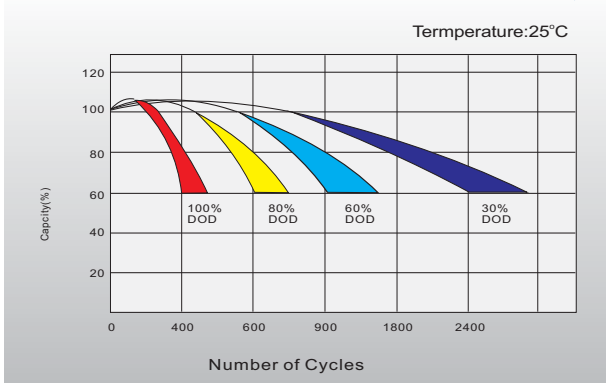
Discharge Characteristics



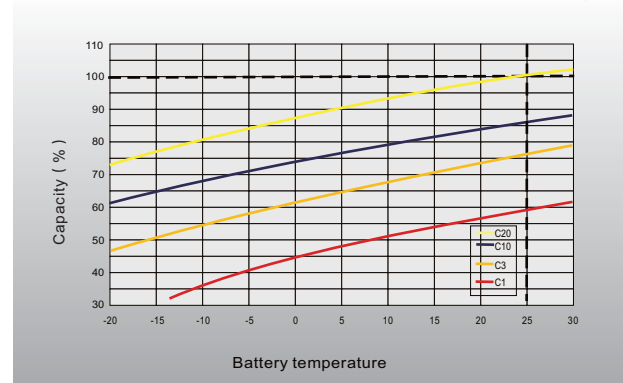
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



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