



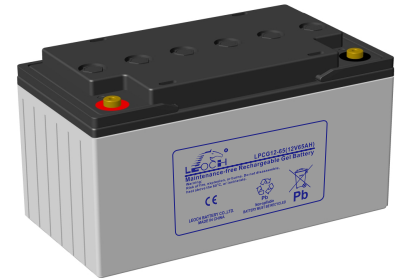
LPCG Series-Deep Cycle Gel

LPCG12-65(12V65Ah)

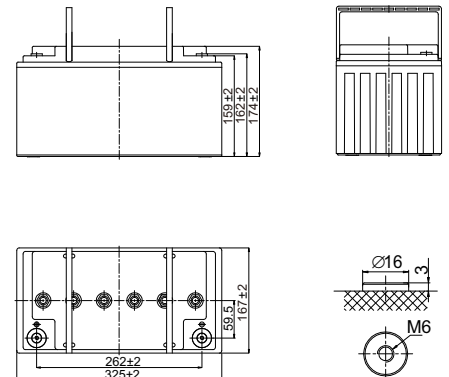


Specifications

Rated Voltage	12V	
Nominal Capacity	65Ah	(C ₂₀ , 1.80V/cell)
Dimension	Length	325±3mm (12.8 inches)
	Width	167±2mm (6.57 inches)
	Container Height	174±2mm (6.85 inches)
	Total Height	174±2mm (6.85 inches)
Approx Weight	20.5 Kg (45.2 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	65.0 Ah	(20hr, 3.25A, 1.80V/cell)
	60.0 Ah	(10hr, 6.00A, 1.80V/cell)
	52.0 Ah	(5hr, 10.4A, 1.75V/cell)
	45.3 Ah	(3hr, 15.1A, 1.75V/cell)
	35.8 Ah	(1hr, 35.8A, 1.67V/cell)
Max. Discharge Current	650A (5s)	
Internal Resistance (25°C)	Approx 9.4mΩ	
Operating Temp. Range	Discharge : -20 ~ 55°C (-4 ~ 131°F)	
	Charge : -20 ~ 40°C (-4 ~ 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 15.0A. Voltage	
	14.4V~14.7V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 15.0A. 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	27.6	17.5	13.3	11.0	9.53	8.22	6.57	5.67	3.12
1.80V/cell	30.4	18.9	14.3	11.7	10.0	8.63	6.88	6.00	3.25
1.75V/cell	32.6	20.1	15.1	12.3	10.4	8.94	7.10	6.05	3.32
1.67V/cell	35.8	21.8	16.2	13.0	10.9	9.40	7.43	6.26	3.39
1.60V/cell	38.0	22.7	16.9	13.5	11.3	9.63	7.56	6.38	3.44

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	53.7	34.2	26.1	21.7	18.8	16.3	13.1	11.3	6.23
1.80V/cell	58.9	36.8	27.9	22.9	19.7	17.0	13.7	11.8	6.48
1.75V/cell	62.8	38.9	29.4	23.9	20.4	17.6	14.1	12.0	6.60
1.67V/cell	68.1	41.9	31.3	25.2	21.3	18.4	14.6	12.4	6.74
1.60V/cell	71.9	43.4	32.4	26.0	21.9	18.8	14.9	12.6	6.82

LPCG Series-Deep Cycle Gel

LPCG12-65(12V65Ah)



Applications

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

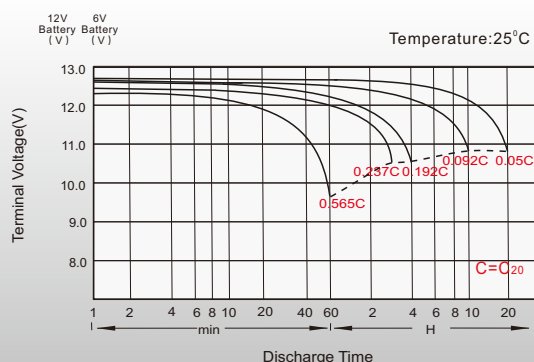
General Features

- 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

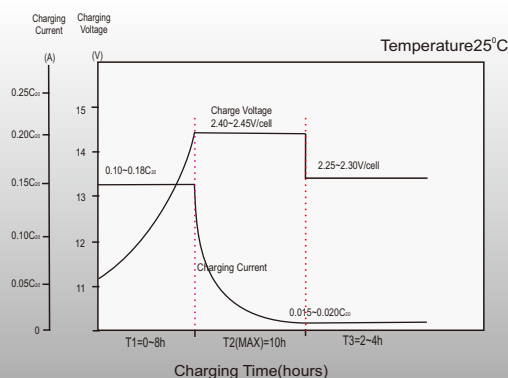
Standards

- IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- UL Certified
- Manufactured in Leoch® IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

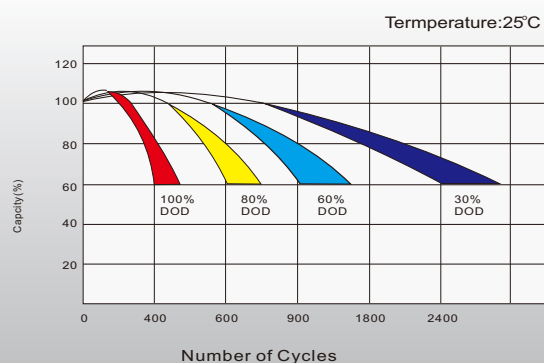
Discharge Characteristics



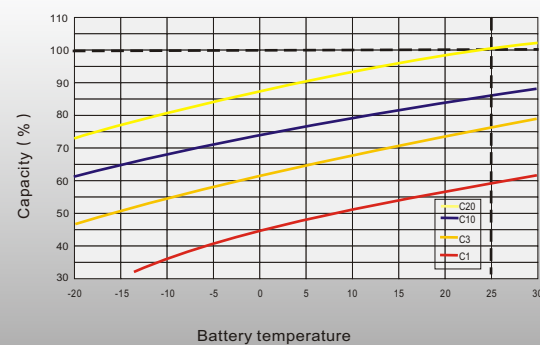
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



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