



NPG12-70 (12V70Ah)

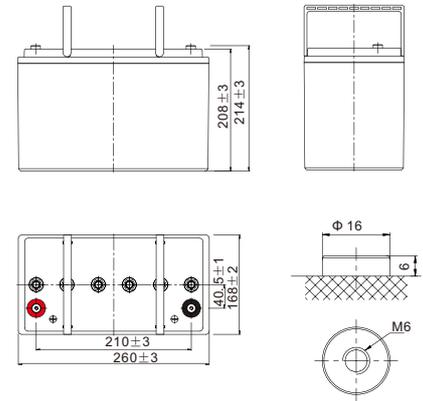
Rechargeable Deep Cycle Gel Battery

Specifications

Rated Voltage	12V	
Nominal Capacity	70Ah (C ₂₀ , 1.80V/cell)	
Dimension	Length	260±2mm (10.2 inches)
	Width	168±2mm (6.61 inches)
	Container Height	208±2mm (8.19 inches)
	Total Height	214±2mm (8.43 inches)
Approx Weight	22.9 Kg (50.5 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	70.0 Ah	(20hr, 3.50A, 1.80V/cell)
	66.0 Ah	(10hr, 6.60A, 1.80V/cell)
	62.0 Ah	(5hr, 12.4A, 1.75V/cell)
	55.8 Ah	(3hr, 18.6A, 1.75V/cell)
	43.8 Ah	(1hr, 43.8A, 1.67V/cell)
Max. Discharge Current	700A (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 16,5A. Voltage 14.4V~14,7V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Standby Use	
Effect of temp. to Capacity	Initial Charging Current less than 16,5A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
	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	33.6	20.6	16.4	13.2	11.4	9.75	7.77	6.47	3.31
1.80V/cell	37.1	22.7	17.9	14.4	12.0	10.3	8.10	6.60	3.50
1.75V/cell	41.6	24.4	18.6	14.8	12.4	10.6	8.24	6.80	3.56
1.67V/cell	43.8	25.4	19.2	15.1	12.7	10.8	8.38	6.86	3.64
1.60V/cell	45.2	25.9	19.5	15.3	13.0	11.0	8.45	6.93	3.69

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	65.3	40.3	32.0	25.9	13.9	19.2	15.4	12.8	6.58
1.80V/cell	71.7	44.3	34.9	28.0	14.3	20.3	15.9	13.0	6.95
1.75V/cell	79.8	47.2	36.3	28.8	14.6	20.9	16.2	13.4	7.07
1.67V/cell	82.9	48.6	37.1	29.1	15.0	21.1	16.4	13.5	7.22
1.60V/cell	84.9	49.3	37.3	29.5	15.4	21.4	16.5	13.6	7.30

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Rechargeable Deep Cycle Gel Battery

Applications

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

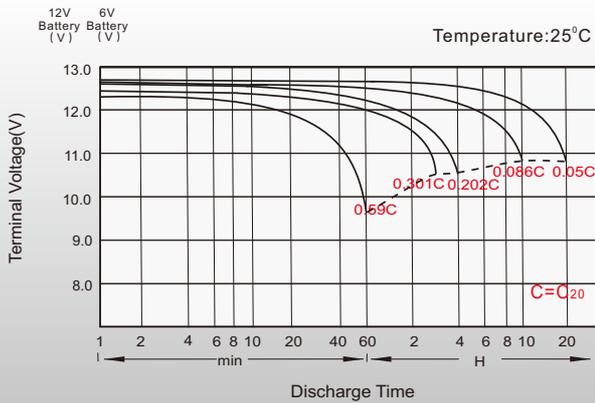
General Features

- 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

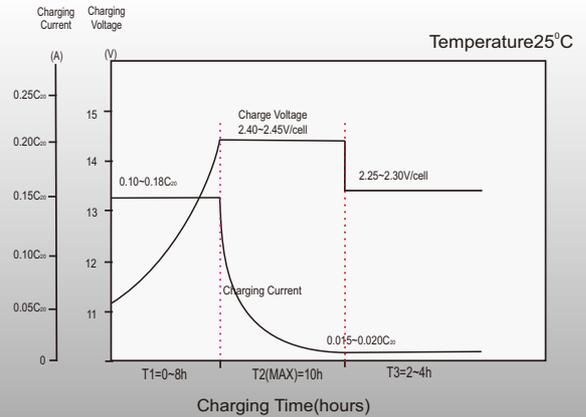
Standards

- 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

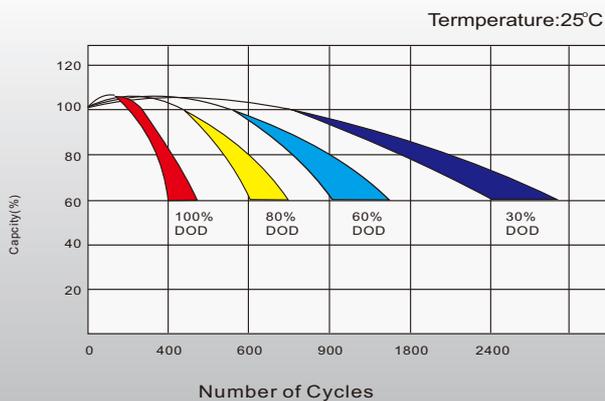
Discharge Characteristics



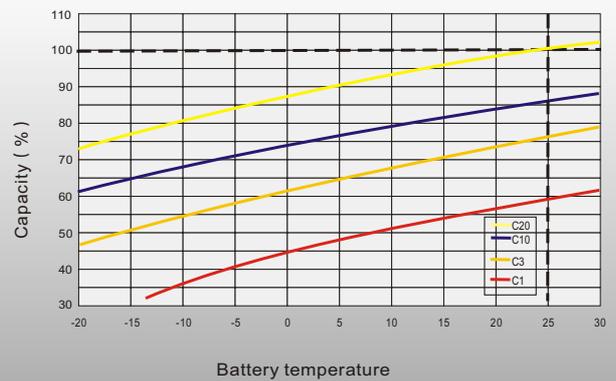
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



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