



NPG12-70 (12V70Ah)

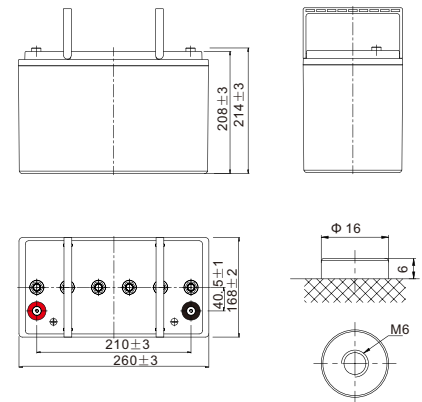
Rechargeable Deep Cycle Gel Battery

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

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and Battery designs/specification are subject to modification without notice. Contact YHI Power for latest information.



NPG12-70 (12V70Ah)

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

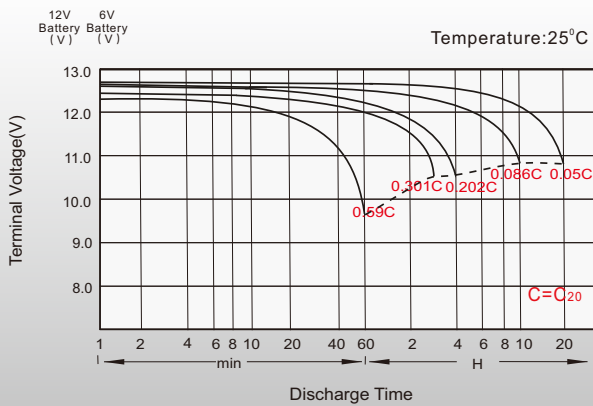
General Features

- 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

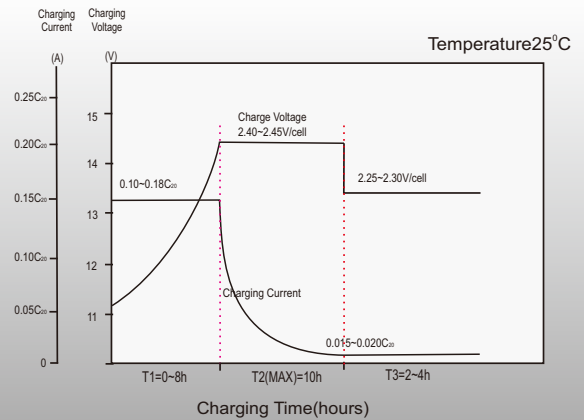
Standards

- 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

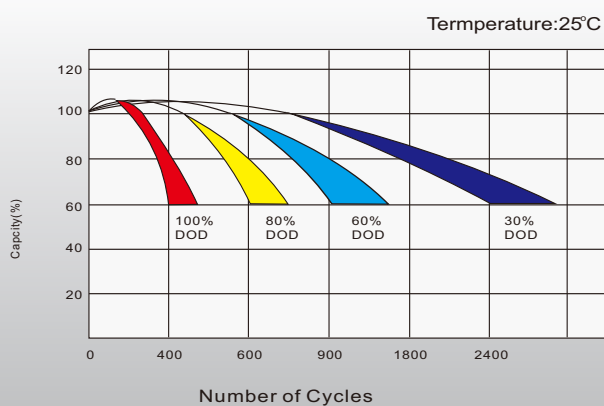
Discharge Characteristics



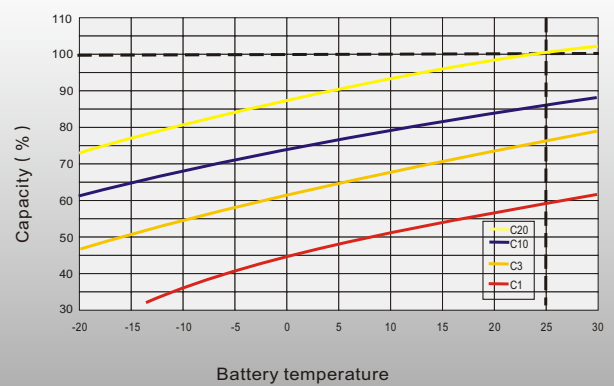
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and Battery designs/specification are subject to modification without notice. Contact YHI Power for latest information.