



NPG12-55 (12V55Ah)

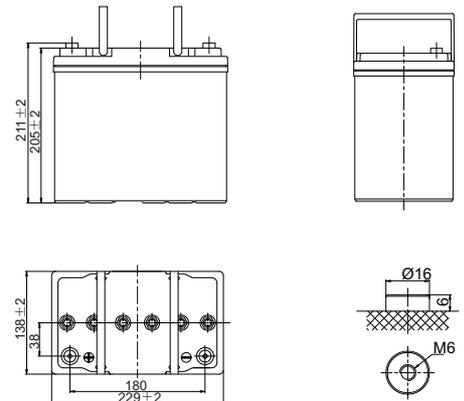
Rechargeable Deep Cycle Gel Battery

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	16.1 Kg (35.3 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	550A (5s)	
Internal Resistance (25°C)	Approx 12.1mΩ	
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 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

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.



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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

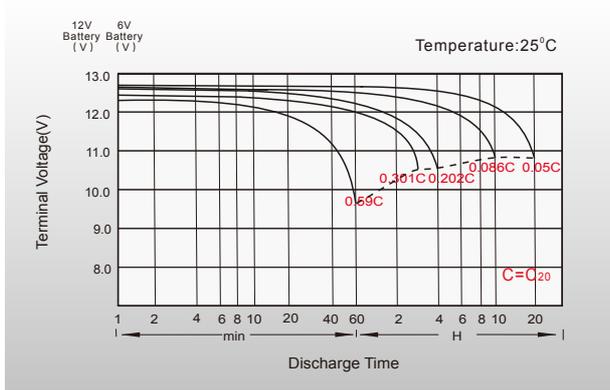
General Features

- 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

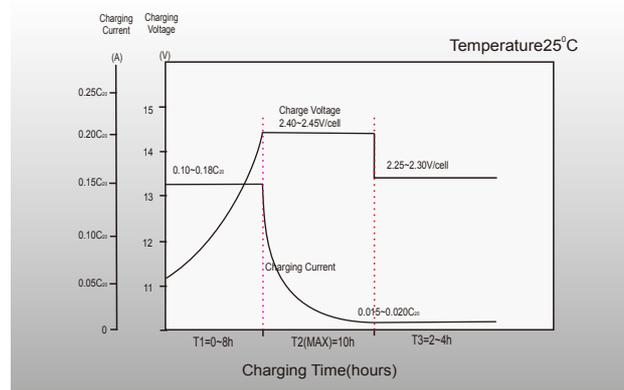
Standards

- IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- UL Certified
- Manufactured in Leoch® IATF 16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

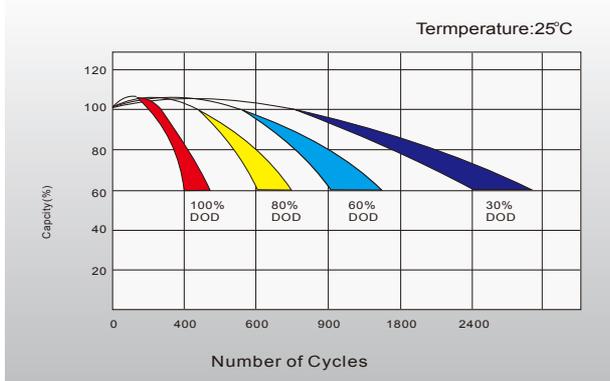
Discharge Characteristics



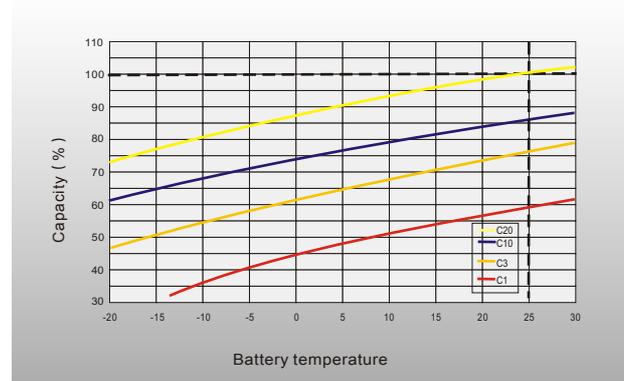
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



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