



NPG12-30 (12V30Ah)

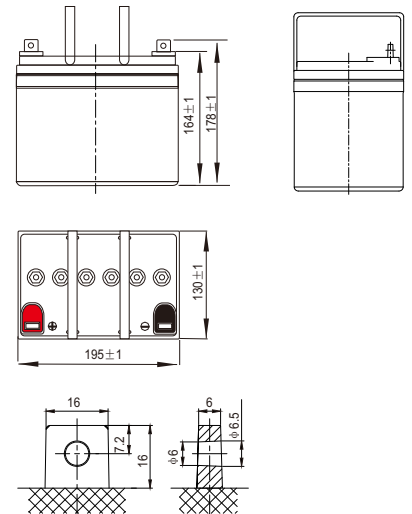
Rechargeable Deep Cycle Gel Battery

Specifications

Rated Voltage	12V	
Nominal Capacity	30Ah	(C ₂₀ , 1.80V/cell)
Dimension	Length	195±1mm (7.68 inches)
	Width	130±1mm (5.12 inches)
	Container Height	164±1mm (6.46 inches)
	Total Height	178±1mm (7.01 inches)
Approx Weight	10.2 Kg (22.5lbs)	
Terminal	T5	
Container Material	ABS	
Rated Capacity (25 °C)	30.0 Ah	(20hr, 1.50A, 1.80V/cell)
	27.6 Ah	(10hr, 2.76A, 1.80V/cell)
	24.3 Ah	(5hr, 4.85A, 1.75V/cell)
	21.4 Ah	(3hr, 7.12A, 1.75V/cell)
	17.0 Ah	(1hr, 17.0A, 1.67V/cell)
Max. Discharge Current	300A (5s)	
Internal Resistance (25 °C)	Approx 14.6mΩ	
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 6.0A. Voltage 14.4V~14.7V at 25° C(77°F)Temp. Coefficient -30mV/°C	
	Standby Use	
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	13.3	8.36	6.30	5.16	4.42	3.84	3.10	2.63	1.46
1.80V/cell	14.8	9.09	6.80	5.53	4.69	4.07	3.26	2.76	1.50
1.75V/cell	15.7	9.53	7.12	5.75	4.85	4.20	3.34	2.80	1.52
1.67V/cell	17.0	10.3	7.58	6.05	5.10	4.40	3.47	2.90	1.56
1.60V/cell	17.8	10.6	7.82	6.23	5.24	4.50	3.52	2.94	1.58

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	25.9	16.3	12.3	10.1	8.70	7.58	6.14	5.22	2.92
1.80V/cell	28.7	17.6	13.2	10.8	9.21	8.02	6.46	5.48	2.99
1.75V/cell	30.2	18.4	13.8	11.2	9.49	8.26	6.61	5.56	3.03
1.67V/cell	32.3	19.7	14.6	11.7	9.95	8.61	6.84	5.73	3.10
1.60V/cell	33.7	20.3	15.0	12.0	10.2	8.79	6.92	5.81	3.13

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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

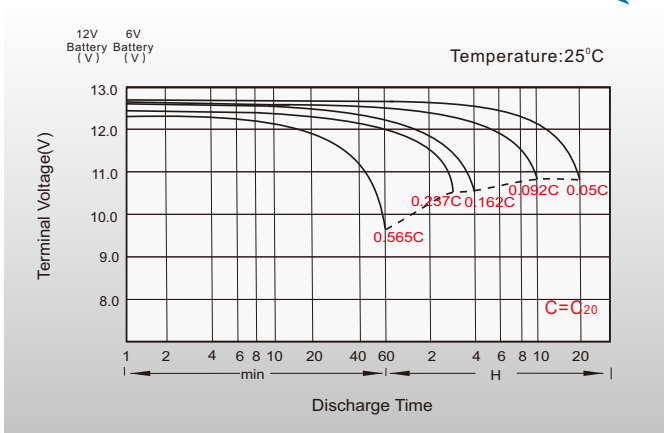
General Features

- 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

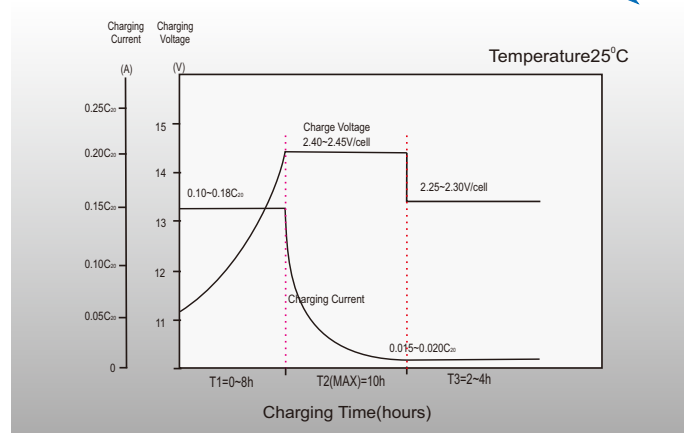
Standards

- 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

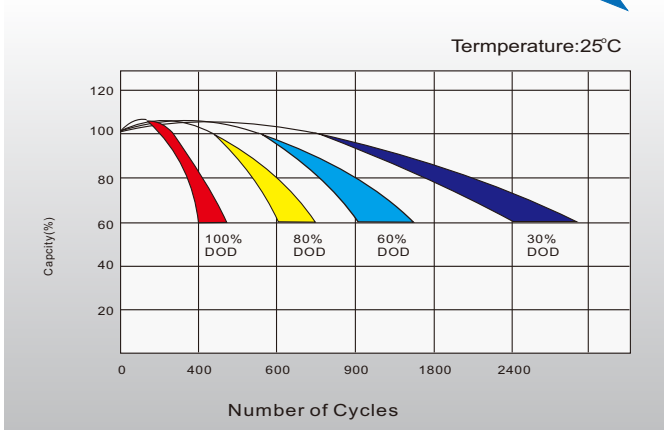
Discharge Characteristics



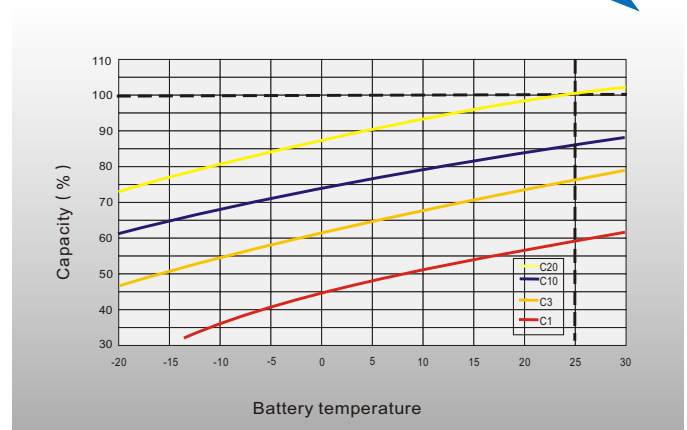
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



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