

SPECIFICATIONS

Rated Voltage	12V
Nominal Capacity	100Ah (C ₂₀ , 1.80V/cell)
Dimension	Length 330±3mm (13.0 inches)
	Width 173±2mm (6.81 inches)
	Container Height 212±3mm (8.35 inches)
	Total Height 218±3mm (8.58 inches)
Approx Weight	31.2 Kg (68.8lbs)
Terminal	M8
Container Material	ABS
	100.0 Ah (20hr, 5.00A, 1.80V/cell)
	88.8 Ah (10hr, 8.88A, 1.80V/cell)
Rated Capacity (25°C)	80.0 Ah (5hr, 16.0A, 1.75V/cell)
	72.0 Ah (3hr, 24.0A, 1.75V/cell)
	56.3 Ah (1hr, 56.3A, 1.67V/cell)
Max. Discharge Current	1000A (5s)
Internal Resistance (25°C)	Approx 6.9mΩ
	Discharge -20~55°C (-4~131°F)
	Charge -20~40°C (-4~104°F)
Operating Temp.Range	Storage -20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 22.0A. Voltage 14.4V~14.7V at 250 C(770 F)Temp. Coefficient -30mV/0C
Standby Use	Initial Charging Current less than 22.0A. Voltage 13.5V~13.8V at 250 C(770 F)Temp. Coefficient -20mV/0C
	40°C (104°F) 103%
Capacity affected by Temperature	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	NDCG 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.



APPLICATIONS

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

STANDARDS

- IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- UL Certified
- Manufactured in IATF16949, ISO45001, ISO 9001 and ISO 14001 certified production facilities

Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	43.1	26.5	21.0	17.0	14.8	12.9	10.4	8.62	4.66
1.80V/cell	47.7	29.3	23.1	18.4	15.6	13.7	10.9	8.88	5.00
1.75V/cell	53.6	31.4	24.0	19.1	16.0	14.1	11.0	9.06	5.06
1.67V/cell	56.3	32.6	24.8	19.4	16.5	14.4	11.2	9.15	5.12
1.60V/cell	58.1	33.3	25.1	19.8	16.8	14.6	11.3	9.24	5.20

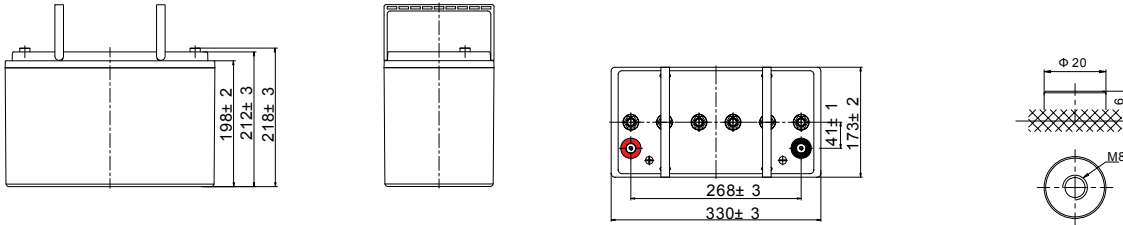
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	83.8	51.9	41.2	33.5	29.0	25.4	11.8	17.1	9.25
1.80V/cell	92.2	56.9	45.0	36.2	30.4	26.8	12.0	17.4	9.85
1.75V/cell	102.6	60.8	46.7	37.2	31.3	27.6	12.2	17.9	9.95
1.67V/cell	106.6	62.6	47.8	37.6	32.0	27.9	12.4	18.0	10.2
1.60V/cell	109.0	63.4	48.1	38.1	32.5	28.3	12.6	18.1	10.3

GENERAL FEATURES

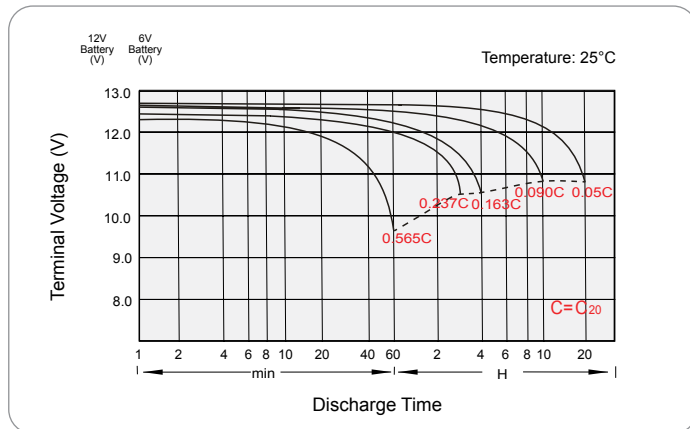
- Special plate design, long cycle life
- ≥ 600 Cycles @ 80%DOD
- Operation temperature $-20 \sim 55^{\circ}\text{C}$
- $\leq 2\%$ Self discharge per month
- Good deep discharge resilience performance

DIMENSIONS

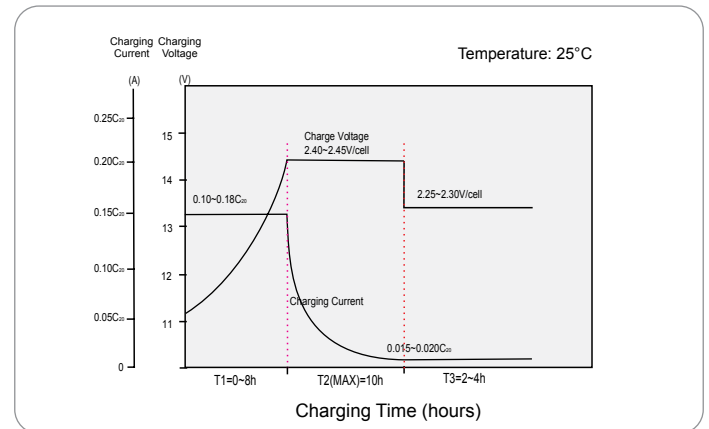


PERFORMANCE CHARACTERISTICS

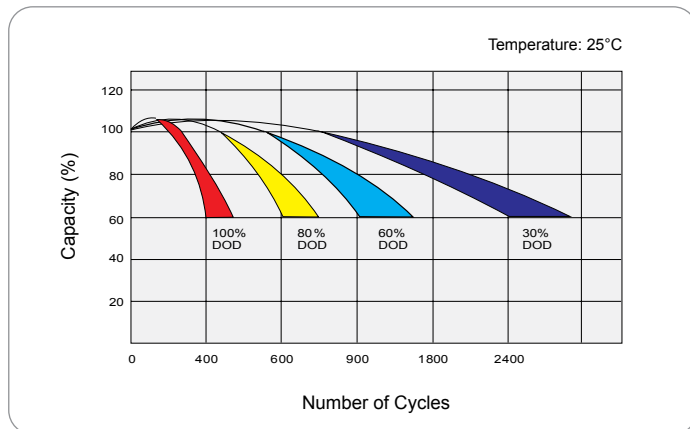
Discharge Characteristics



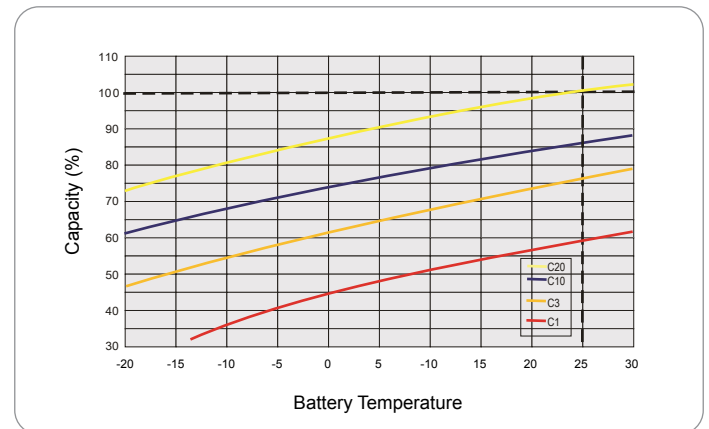
Discharge Characteristics Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



NITRO

VALVE REGULATED GEL BATTERY

NDCG12-100I