

SPECIFICATIONS

Rated Voltage	12V	
Nominal Capacity	70Ah (C ₁₀ , 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	
	75.0Ah	C20(3.75A, 1.80V/cell)
	70.0Ah	C10(7.00A, 1.80V/cell)
	60.0Ah	C5(12.0A, 1.75V/cell)
	54.3Ah	C3(18.1A, 1.75V/cell)
Rated Capacity (25°C)	44.5Ah	C1(44.5A, 1.60V/cell)
Max. Discharge Current	700A (5s)	
Internal Resistance (25°C)	Approx 9.4mΩ	
	Discharge	-20~60°C (-4~140°F)
Operating Temp. Range	Charge	-20~40°C (-4~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±5°C (77±5°F)	
Max. Charging Current (25°C)	17.5A	
Charge voltage (25°C)		Charge Voltage Temp. Coefficient
	Float	2.23~2.27V/cell -3mV/cell/°C
	Equalization	2.30~2.37V/cell -4mV/cell/°C
	Cycle	2.40~2.50V/cell -5mV/cell/°C
Effect of temp. to capacity	40°C (104°F)	105 %
	25°C (77°F)	100 %
	0°C (32°F)	86 %
Self Discharge	≤3% @ 25°C	



APPLICATIONS

- Tele-communication back up
- Solar system
- Wind power system
- Engine starting
- Wheelchair, Floor cleaning machines, Golf trolley, Boats cycle applications

STANDARDS

- Compliance with IEC 60896, YD/T 1360 standards
- UL, CE, TLC 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	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	92.1	79.9	62.8	50.4	40.1	34.6	26.3	21.3	16.2	13.0	10.9	9.45	7.65	6.37	3.56
1.80V/cell	104.6	90.5	71.0	58.8	45.5	38.5	28.9	23.2	17.5	13.9	11.7	10.1	8.14	7.00	3.75
1.75V/cell	113.4	98.0	76.7	61.2	47.2	40.1	30.1	24.1	18.1	14.3	12.0	10.3	8.29	7.03	3.79
1.70V/cell	118.6	102.9	80.7	64.0	49.0	41.6	31.2	24.9	18.6	14.8	12.3	10.6	8.40	7.03	3.84
1.67V/cell	124.7	107.1	83.5	65.8	49.9	42.4	31.8	25.4	18.9	15.0	12.5	10.7	8.47	7.09	3.87
1.60V/cell	129.0	110.4	85.7	69.8	52.4	44.5	33.3	26.6	19.8	15.6	13.0	11.1	8.63	7.16	3.94

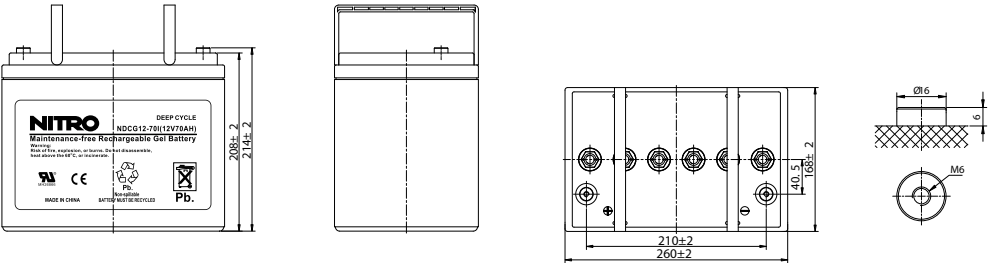
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	173.3	151.2	119.5	96.2	77.2	66.9	51.1	41.3	31.7	25.3	21.3	18.6	15.1	12.6	7.06
1.80V/cell	193.9	169.2	133.6	110.6	86.9	74.1	55.8	44.8	34.1	27.2	22.8	19.8	16.0	13.8	7.42
1.75V/cell	206.9	180.5	142.6	114.6	89.5	76.6	57.7	46.3	35.0	27.9	23.3	20.2	16.3	13.8	7.49
1.70V/cell	212.6	187.1	148.3	118.8	92.1	79.1	59.5	47.7	36.0	28.5	23.9	20.6	16.5	13.8	7.58
1.67V/cell	221.0	192.9	152.4	121.3	93.4	80.4	60.5	48.5	36.4	28.9	24.2	20.9	16.6	13.9	7.63
1.60V/cell	224.1	195.6	154.5	126.7	97.0	83.6	62.9	50.5	37.8	29.9	25.0	21.5	16.9	14.0	7.77

GENERAL FEATURES

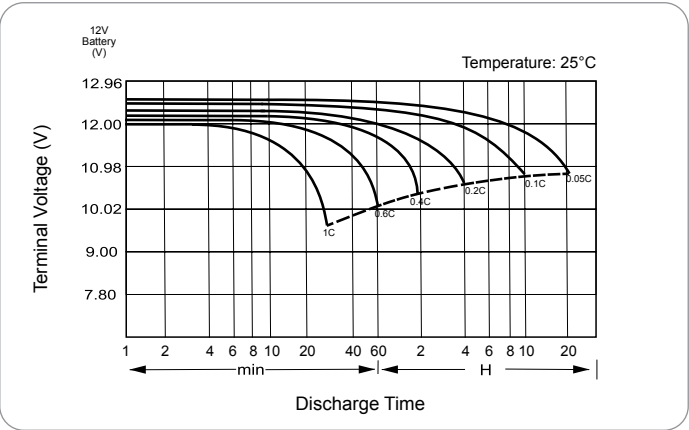
- Battery design life up to 15 years
 - Special plate design to ensure battery cycle lifetime more than 4000 times
- High thermal capacity, reduce the risk of thermal out of control and drying hard, can be used in bad environment
 - Little water losing, no electrolyte stratification phenomenon

DIMENSIONS

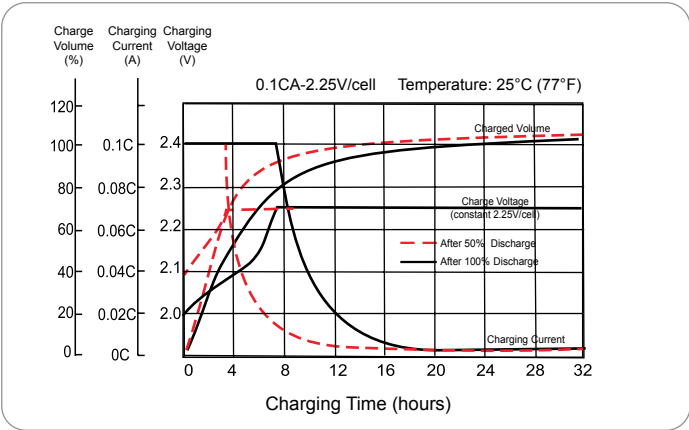


PERFORMANCE CHARACTERISTICS

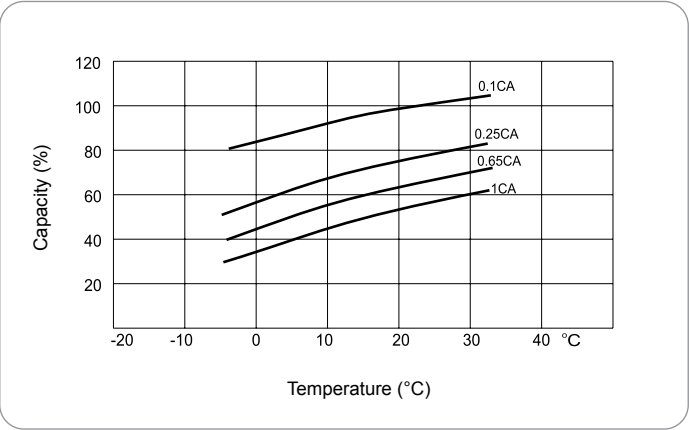
Discharge Characteristics



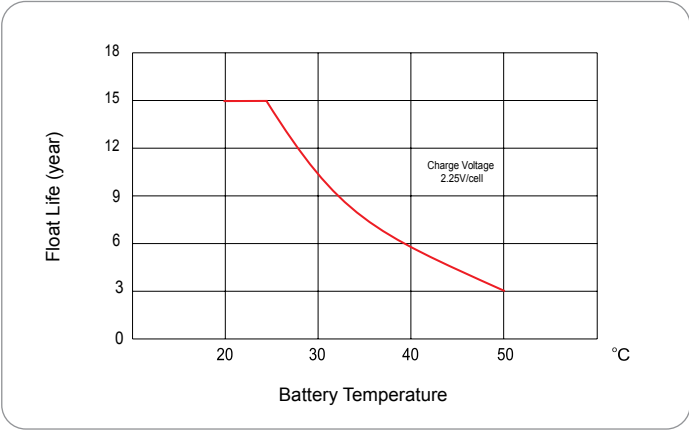
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



NITRO

VALVE REGULATED GEL BATTERY
NDCG12-70I