

SPECIFICATIONS

Rated Voltage	12 V
Nominal Capacity	75.0 Ah (C ₁₀ , 1.80 V/cell)
Dimension	Length 260±2 mm (10.2 inches)
	Width 168±2 mm (6.61 inches)
	Container Height 208±2 mm (8.19 inches)
	Total Height 214±2 mm (8.43 inches)
Approx Weight	22.3 Kg (49.06 lbs)
Terminal	M6
Container Material	ABS
	78.2 Ah (20 hr, 3.94 A, 1.80 V/cell)
	75.0 Ah (10 hr, 7.50 A, 1.80 V/cell)
Rated Capacity (25°C)	68.5 Ah (5 hr, 13.7 A, 1.75 V/cell)
	62.1 Ah (3 hr, 20.7 A, 1.75 V/cell)
	47.8 Ah (1 hr, 47.8 A, 1.60 V/cell)
Max. Discharge Current	750 A (5s)
Internal Resistance (25°C)	Approx 6.6 mΩ
	Discharge -15~50°C (5~122°F)
Operating Temp.Range	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 22.5 A. Voltage 14.4 V~15.0 V at 25°C (77°F) Temp. Coefficient -30 mV/°C
Standby Use	Initial Charging Current less than 22.5 A. Voltage 13.5 V~13.8 V at 25°C (77°F) Temp. Coefficient -20 mV/°C
	40°C (104°F) 103%
Capacity affected by Temperature	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	N series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



APPLICATIONS

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL & CE Certified
- Manufactured in IATF 16949, ISO 9001 and ISO 14001 certified production facilities

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	149.8	106.5	96.2	75.7	67.6	49.5	41.9	30.4	25.5	18.7	14.7	12.8	11.2	8.64	7.16	3.80
1.80V/cell	170.4	120.9	109.0	85.5	73.6	52.4	43.4	31.4	26.4	20.3	15.7	13.4	12.1	9.09	7.50	3.94
1.75V/cell	185.1	131.1	118.0	92.3	75.2	54.3	45.5	33.0	27.8	20.7	16.0	13.7	12.2	9.14	7.58	3.98
1.70V/cell	197.8	139.8	125.3	97.9	76.7	55.4	46.5	33.7	28.3	21.1	16.3	13.9	12.2	9.28	7.65	4.02
1.67V/cell	204.7	144.2	129.0	100.6	77.8	56.2	47.1	34.2	28.7	21.3	16.5	14.2	12.3	9.41	7.75	4.07
1.60V/cell	212.0	149.2	133.0	103.2	78.9	57.0	47.8	34.7	29.1	21.5	16.7	14.4	12.4	9.53	7.84	4.11

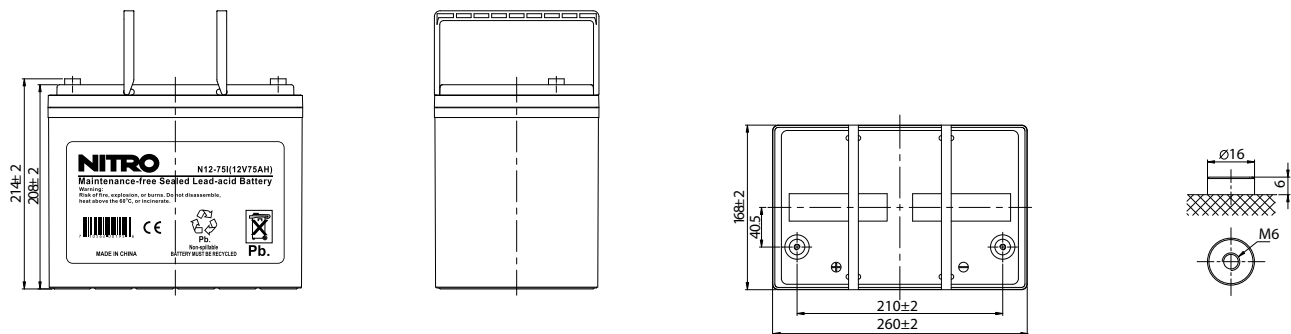
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	279.8	200.4	182.1	143.9	129.3	93.2	81.0	58.9	49.7	36.6	28.8	25.1	21.8	17.2	14.2	7.57
1.80V/cell	313.0	224.2	203.8	161.0	139.6	98.1	83.5	60.6	51.0	39.5	30.7	26.3	23.3	18.0	14.9	7.83
1.75V/cell	334.0	239.2	217.5	171.8	141.4	101.0	87.2	63.4	53.5	40.2	31.1	26.7	23.4	18.0	15.0	7.90
1.70V/cell	351.1	251.5	228.6	180.6	143.0	102.4	88.5	64.4	54.3	40.8	31.5	27.0	23.5	18.3	15.2	7.97
1.67V/cell	356.9	255.6	232.3	183.5	144.0	103.3	89.3	65.0	54.9	41.0	31.9	27.5	23.5	18.5	15.3	8.06
1.60V/cell	361.9	259.2	235.6	186.1	144.6	103.8	89.9	65.5	55.4	41.2	32.2	27.8	23.6	18.7	15.5	8.14

GENERAL FEATURES

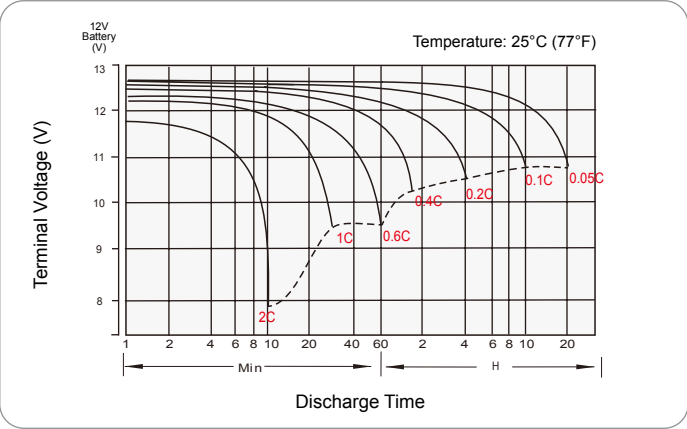
- 10 years design life (25°C)
 - Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
 - PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
 - High purity raw material: ensure low self discharge rate

DIMENSIONS

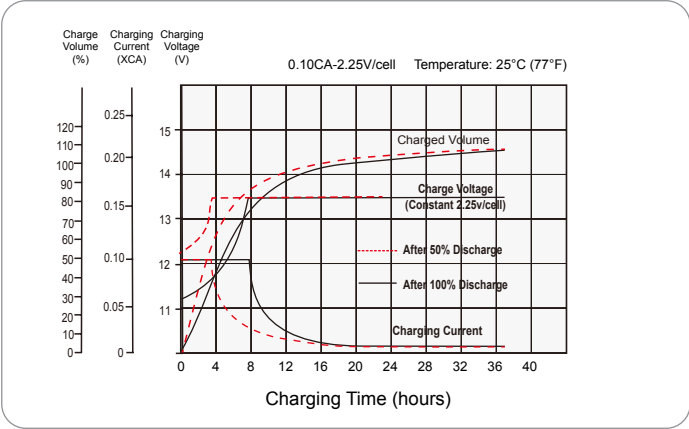


PERFORMANCE CHARACTERISTICS

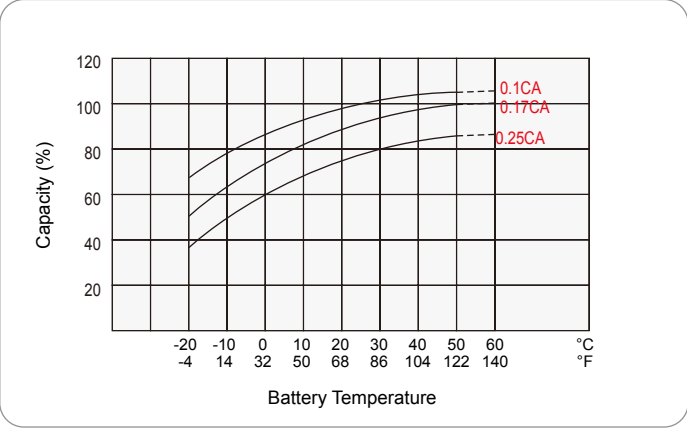
Discharge Characteristics



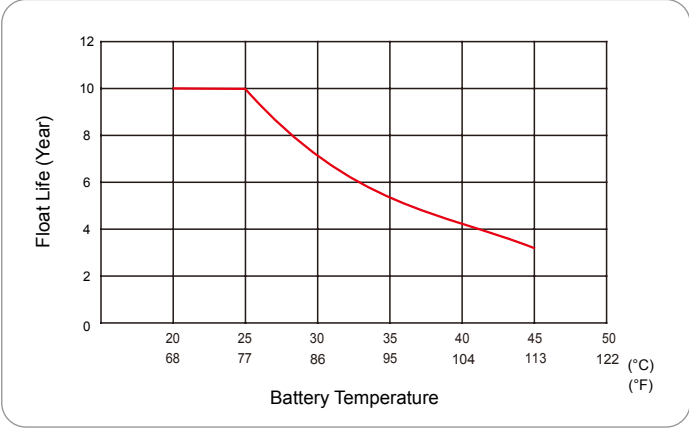
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



NITRO

VALVE REGULATED LEAD-ACID BATTERY
N12-75I