

SPECIFICATIONS

Rated Voltage	12V
Nominal Capacity	95.0 Ah (C ₁₀ , 1.80V/cell)
Dimension	Length 306±2mm (12.0 inches)
	Width 168±2mm (6.61 inches)
	Container Height 208±2mm (8.19 inches)
	Total Height 214±2mm (8.43 inches)
Approx Weight	30.6 Kg (67.5 lbs)
Terminal	M6
Container Material	ABS
Rated Capacity (25°C)	100.0 Ah C20(5.00A, 1.80V/cell)
	95.0 Ah C10(9.50A, 1.80V/cell)
	85.5 Ah C5(17.1A, 1.75V/cell)
	78.0 Ah C3(26.0A, 1.75V/cell)
	60.0 Ah C1(60.0A, 1.60V/cell)
Max. Discharge Current	950A (5s)
Internal Resistance (25°C)	Approx 5.8mΩ
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	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 28.5A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
Standby Use	Initial Charging Current less than 28.5A. Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
Capacity affected by Temperature	40°C (104°F) 103%
	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	30min	1h	1.5h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	84.8	52.5	38.1	32.0	23.5	18.4	16.0	10.8	9.98	4.82
1.80V/cell	92.4	54.4	39.4	33.1	25.5	19.7	16.8	11.4	9.50	5.00
1.75V/cell	94.2	57.1	41.4	34.8	26.0	20.0	17.1	11.5	9.60	5.05
1.70V/cell	96.1	58.2	42.2	35.5	26.5	20.4	17.4	11.6	9.69	5.10
1.65V/cell	97.5	59.1	42.8	36.0	26.7	20.7	17.8	11.8	9.79	5.16
1.60V/cell	99.0	60.0	43.5	36.5	27.0	20.9	18.0	12.0	9.88	5.22

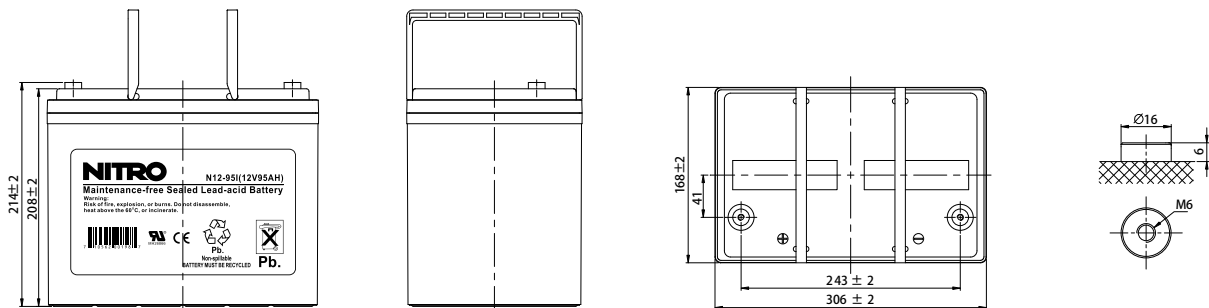
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	30min	1h	1.5h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	162.1	101.6	73.9	62.3	45.9	36.1	31.5	21.5	17.9	9.61
1.80V/cell	175.1	104.7	76.0	64.0	49.6	38.4	33.0	22.6	18.7	9.94
1.75V/cell	177.3	109.4	79.5	67.1	50.4	39.0	33.5	22.6	18.8	10.0
1.70V/cell	179.3	111.0	80.7	68.1	51.2	39.6	33.9	23.0	19.0	10.1
1.65V/cell	180.6	112.0	81.5	68.9	51.5	40.0	34.5	23.2	19.2	10.2
1.60V/cell	181.4	112.8	82.2	69.4	51.7	40.3	34.8	23.5	19.4	10.3

GENERAL FEATURES

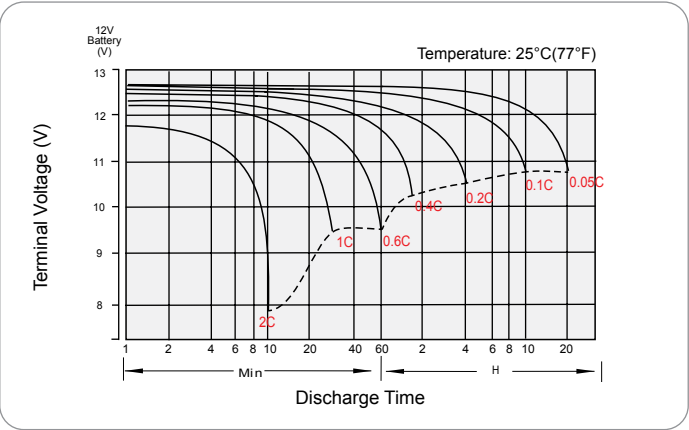
- 10 years design life (25°C)
 - Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
 - PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
 - High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

DIMENSIONS

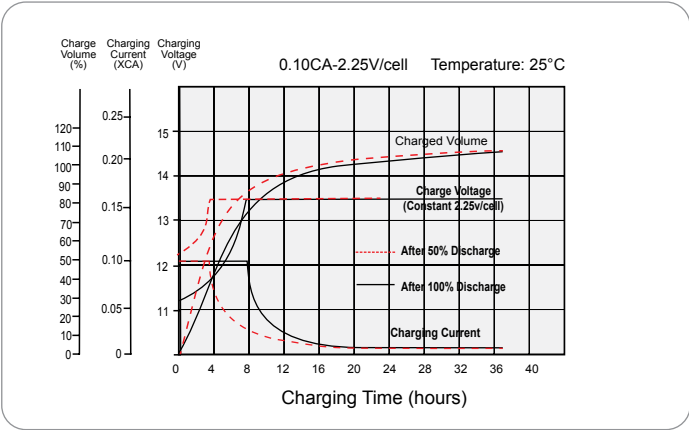


PERFORMANCE CHARACTERISTICS

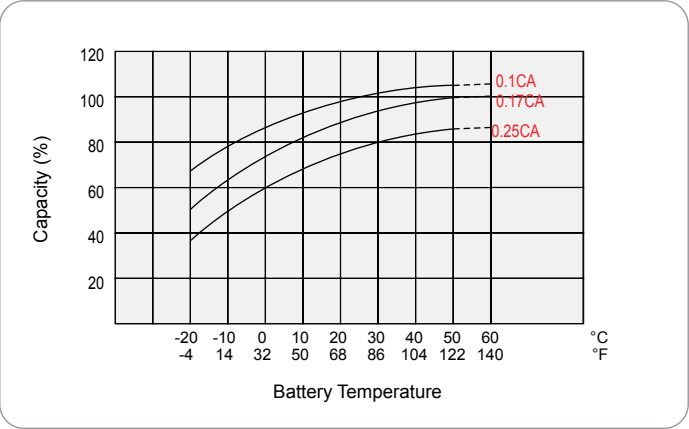
Discharge Characteristics



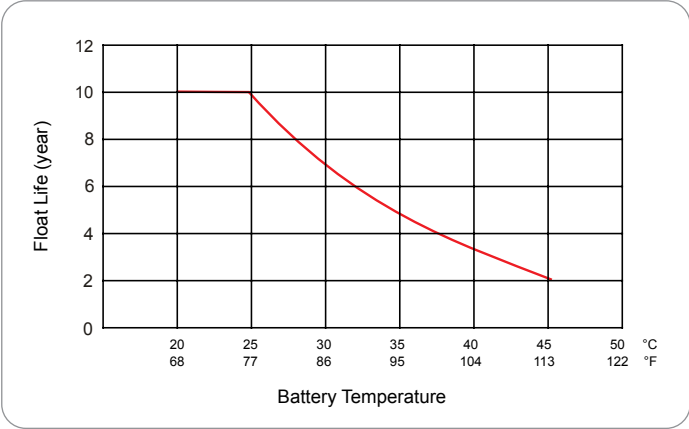
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



NITRO

VALVE REGULATED LEAD-ACID BATTERY
N12-95I