

SPECIFICATIONS

Rated Voltage	12V	
Nominal Capacity	35.0Ah (C ₂₀ , 1.75V/cell)	
Dimension	Length	195±2mm (7.68 inches)
	Width	130±2mm (5.12 inches)
	Container Height	164±2mm (6.46 inches)
	Total Height	178±2mm (7.01 inches)
Approx Weight	10.7 Kg (23.6 lbs)	
Terminal	T5	
Container Material	ABS	
Rated Capacity (25°C)	35.0Ah	(20hr, 1.75A, 1.75V/cell)
	33.1Ah	(10hr, 3.31A, 1.75V/cell)
	30.1Ah	(5hr, 6.02A, 1.75V/cell)
	27.1Ah	(3hr, 9.03A, 1.75V/cell)
	23.8Ah	(1hr, 23.8A, 1.60V/cell)
Max. Discharge Current	525A (5s)	
Internal Resistance (25°C)	Approx 10mΩ	
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 10.5A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 10.5A. 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	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	114.4	78.5	60.4	48.8	36.0	26.3	21.5	15.7	12.3	8.74	6.89	5.86	5.02	3.96	3.23	1.71
1.80V/cell	123.1	83.2	63.4	50.8	37.1	27.0	22.1	16.0	12.5	8.89	6.99	5.95	5.10	4.01	3.28	1.73
1.75V/cell	129.7	86.5	65.5	52.2	38.0	27.6	22.5	16.3	12.7	9.03	7.08	6.02	5.16	4.06	3.31	1.75
1.70V/cell	135.8	90.0	67.7	53.7	39.0	28.2	22.9	16.6	12.9	9.16	7.18	6.11	5.22	4.10	3.34	1.76
1.67V/cell	140.5	92.5	69.3	54.8	39.7	28.6	23.3	16.8	13.0	9.25	7.25	6.16	5.27	4.13	3.37	1.78
1.60V/cell	149.0	96.4	71.7	56.5	40.8	29.4	23.8	17.2	13.3	9.42	7.38	6.26	5.34	4.19	3.41	1.80

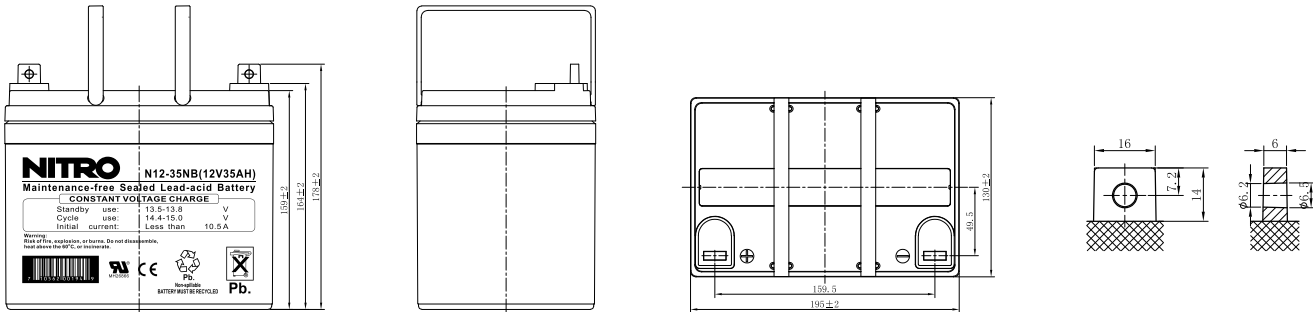
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	216.5	149.3	115.6	94.1	69.5	51.0	41.9	30.6	24.0	17.2	13.6	11.6	9.93	7.84	6.43	3.42
1.80V/cell	230.6	157.2	120.6	97.3	71.3	52.2	42.8	31.2	24.4	17.4	13.7	11.7	10.1	7.95	6.51	3.46
1.75V/cell	240.3	162.3	123.8	99.5	72.9	53.1	43.5	31.6	24.8	17.7	13.9	11.9	10.2	8.03	6.57	3.50
1.70V/cell	249.2	167.7	127.2	101.8	74.4	54.1	44.1	32.1	25.1	17.9	14.1	12.0	10.3	8.10	6.63	3.53
1.67V/cell	255.7	171.4	130.0	103.7	75.5	54.8	44.7	32.4	25.3	18.0	14.2	12.1	10.4	8.16	6.68	3.56
1.60V/cell	266.0	176.4	133.5	106.3	77.2	55.8	45.5	33.0	25.7	18.3	14.4	12.3	10.5	8.27	6.75	3.59

GENERAL FEATURES

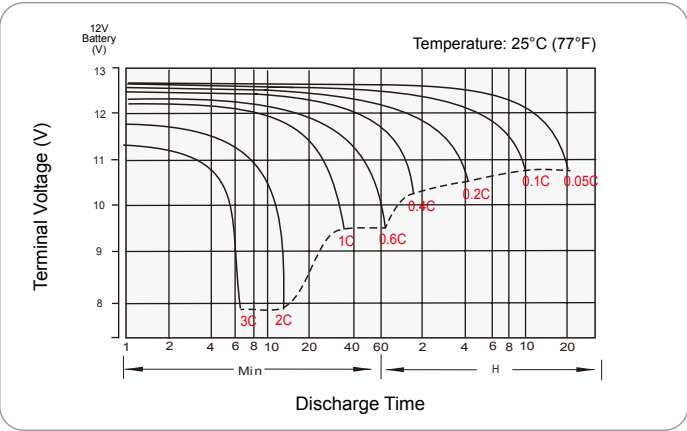
- 5 years design life (25°C)
 - Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
 - PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
 - High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

DIMENSIONS

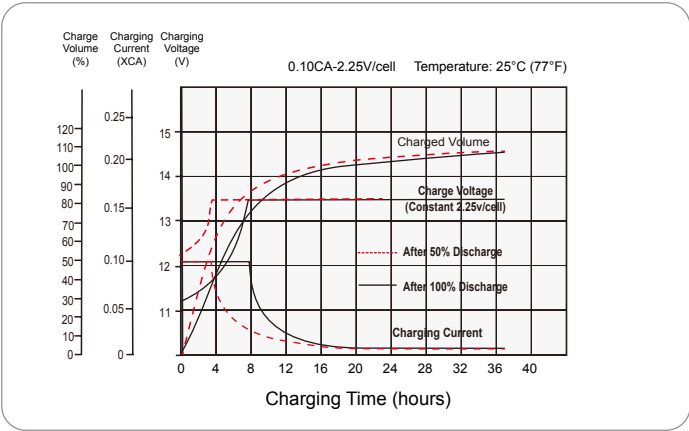


PERFORMANCE CHARACTERISTICS

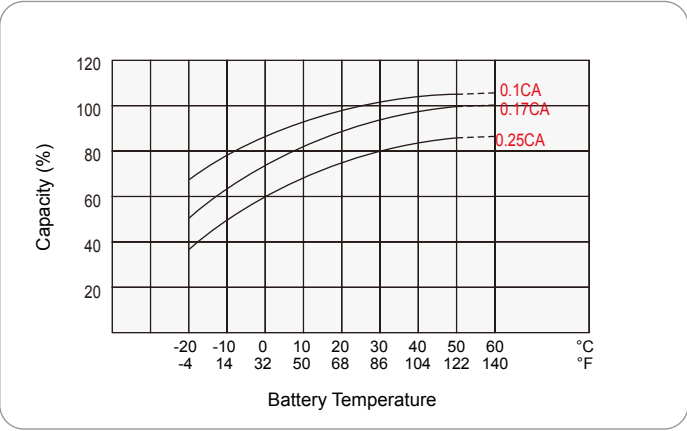
Discharge Characteristics



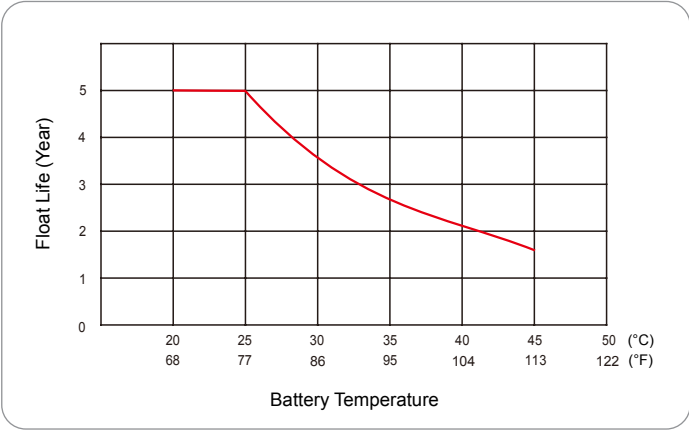
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



NITRO

VALVE REGULATED LEAD-ACID BATTERY
N12-35NB