

NAG120-12



Specification		
Nominal Voltage	12V	
Nominal Capacity (20HR)	120.0AH	
Dimension	Length	331±1mm (13.03 inches)
	Width	176±1mm (6.92 inches)
	Height	215±1mm (8.46 inches)
	Total Height	219±1mm (8.62 inches)
Approx Weight	Approx 32.5kg (71,65lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	120.0AH/6A	(20hr, 1.75V/cell, 25°C/77°F)
	111.3AH/11.13A	(10hr, 1.80V/cell, 25°C/77°F)
	98.0AH/19.6A	(5hr, 1.75V/cell, 25°C/77°F)
	71.0AH/71.0A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1100A (5s)	
Internal Resistance	Approx ≤6.0mΩ	
Operating Temperature Range	Discharge: -20~55°C (-4~131°F)	
	Change : 0~40°C (32~104°F)	
	Storage : -20~50°C (-4~122°F)	
Nominal Operating Temperature Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current Less than 24A Voltage 14.4-14.9V	
Standby Use	Initial Charging Current Less than 24A Voltage 13.6-13.8V	
Capacity affected by Temperature	40°C (104°F)	108%
	25°C (77°F)	100%
	0°C (32°F)	90%
	-15°C (5°F)	70%
Self Discharge	Batteries may be stored for up to 9 months at 25°C (77°F) and then a freshening charge is required.	

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.80V/cell	156.6	100.3	76.5	61.3	36.8	27.4	19.1	16.7	13.4	11.13	5.80
1.75V/cell	167.0	104.1	79.4	63.6	38.3	28.3	19.6	17.0	13.6	11.24	6.00
1.70V/cell	178.2	108.9	83.0	66.2	39.3	28.9	19.9	17.4	13.8	11.35	6.06
1.67V/cell	189.8	112.1	86.2	68.9	40.4	29.7	20.4	17.7	14.0	11.47	6.12
1.60V/cell	200.9	118.3	89.6	71.0	41.7	30.7	20.7	18.0	14.1	11.69	6.18

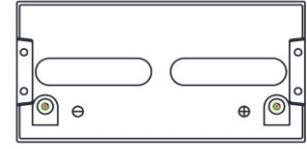
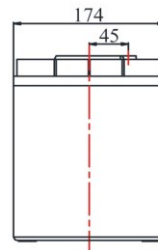
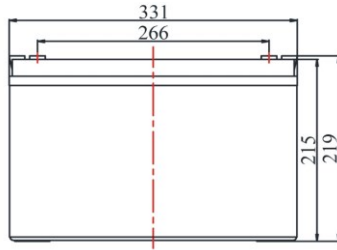
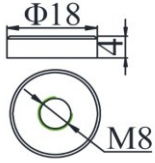
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.80V/cell	292.1	194.7	147.7	119.3	71.0	53.1	37.4	32.7	26.4	21.8	11.4
1.75V/cell	321.4	200.6	152.8	123.3	73.5	54.7	38.2	33.3	26.7	22.0	11.7
1.70V/cell	342.5	206.4	159.2	128.0	75.3	55.8	38.7	33.8	27.1	22.4	11.8
1.67V/cell	367.6	212.3	164.4	132.6	77.0	57.1	39.3	34.3	27.4	22.6	11.9
1.60V/cell	384.2	218.1	170.2	136.3	79.1	58.7	40.0	34.8	27.6	22.8	12.0

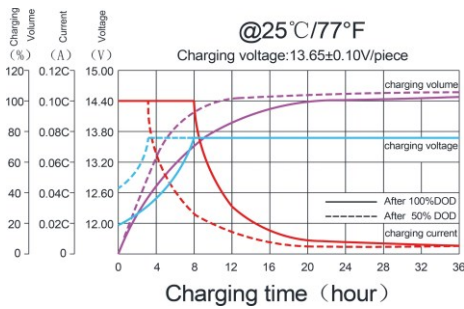
NAG120-12

Dimensions

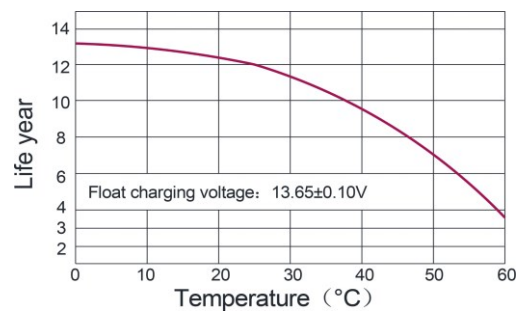
T11 Terminal
Unit: mm



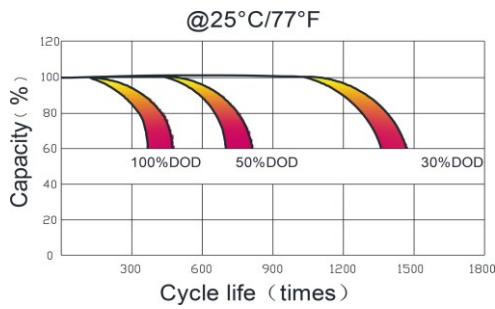
Charging Characteristics



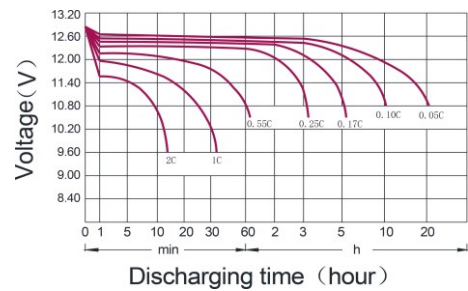
Temperature Effect on Design Service Life



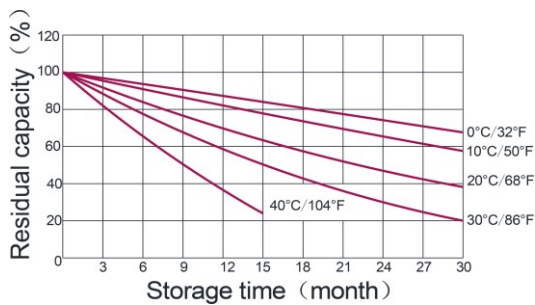
Cycle Life vs. Depth of Discharge



Discharge Characteristics



Temperature Effect on Battery Self-discharge



Temperature Effect on Capacity

