

Specifications

Nominal Voltage	12V	
Nominal Capacity	110AH	
Dimension	Length	330mm (12.99 inches)
	Width	174mm (6.85 inches)
	Height	217mm (8.54 inches)
	Total Height (with Terminal)	238mm (9.37 inches)
Approximate Weight	30.9kg (68.12 lbs)	
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	NB / IT	
Rated Capacity	104.4AH	(20hr, 1.75V/cell, 25°C/77°F)
	98.00AH	(10hr, 1.75V/cell, 25°C/77°F)
	85.35AH	(5hr, 1.75V/cell, 25°C/77°F)
	80.31AH	(3hr, 1.60V/cell, 25°C/77°F)
	63.10AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1000A (5s)	
Internal Resistance	5mΩ	
Operating Temp. Range	Discharge:	-15°C (-5°F)~50°C (122°F)
	Charge:	0°C (32°F)~40°C (104°F)
	Storage:	-15°C (-5°F)~40°C (104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Container Material	ABS (Option: 94-HB & 94-V0 flame retardant case)	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	SigmasTek SP series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is recommended. For higher temperatures the time interval will be shorter.	



Applications

- Uninterruptible Power Supply (UPS)
- Electric wheelchairs, scooters, bikes
- Electronic apparatus and equipment
- Alarm and security systems
- Emergency first responder equipment
- Emergency lighting
- Medical devices
- Electric carts
- Telecom equipment
- Switchgear
- Solar power systems



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

F.V. (V/cell) \ Discharge Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	363.8	191.3	112.3	63.10	36.40	26.77	18.04	12.32	10.19	5.47
1.67V	335.6	180.0	99.90	61.10	35.20	25.32	17.75	12.22	9.99	5.36
1.70V	325.9	169.2	98.00	58.60	34.20	24.93	17.36	12.03	9.89	5.32
1.75V	295.9	157.1	89.30	56.30	31.50	24.06	17.07	11.83	9.80	5.22
1.80V	259.0	145.5	69.10	54.20	25.00	22.99	16.68	11.64	9.70	5.10

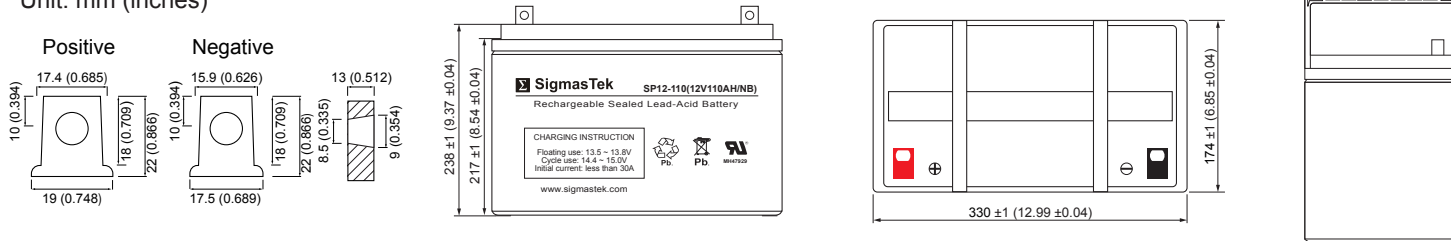
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	633.33	366.66	202.66	124.50	75.50	54.00	34.81	24.05	21.17	10.73
1.67V	600.00	342.50	191.16	123.00	72.83	53.00	34.23	23.86	20.53	10.64
1.70V	583.83	332.50	187.66	121.83	71.83	52.16	33.75	23.56	20.20	10.54
1.75V	548.66	308.33	180.83	119.00	70.33	51.83	33.26	23.28	19.40	10.45
1.80V	511.83	300.00	171.83	116.00	69.33	49.66	32.60	22.98	18.59	10.29

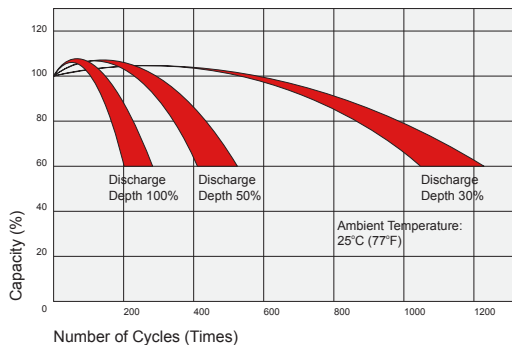
Dimensions

NB Terminal

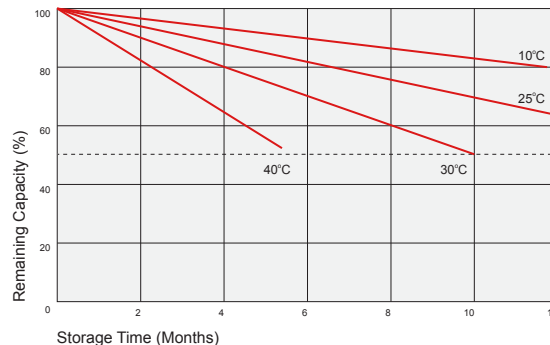
Unit: mm (inches)



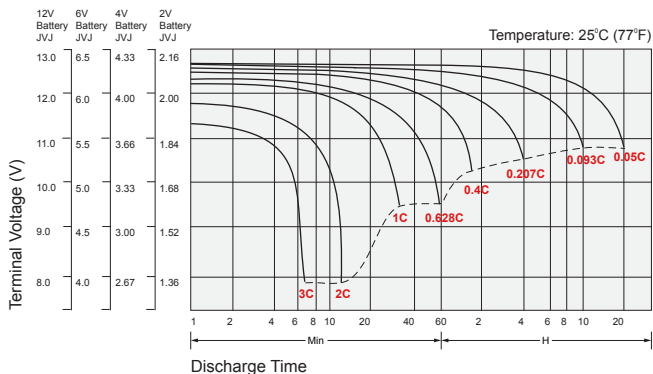
Cycle Service Life



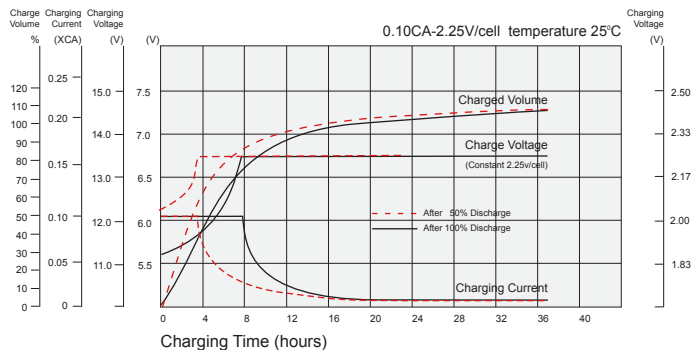
Self Discharge Characteristics



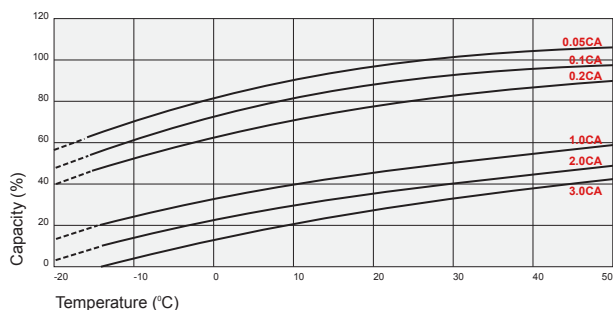
Discharge Characteristics



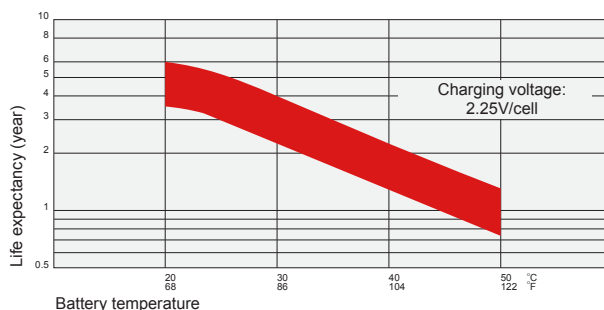
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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