

Specifications

Nominal Voltage	12V	
Nominal Capacity (10HR)	55AH	
Dimension	Length	230mm (9.04 inches)
	Width	138mm (5.45 inches)
	Height	207mm (8.15 inches)
	Total Height (with Terminal)	228mm (8.98 inches)
Approximate Weight	17.0 kg (37.5 lbs)	
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	NB / IT	
Rated Capacity	57.8AH	(20hr, 1.75V/cell, 25°C/77°F)
	55.6AH	(10hr, 1.75V/cell, 25°C/77°F)
	47.3AH	(5hr, 1.75V/cell, 25°C/77°F)
	47.4AH	(3hr, 1.60V/cell, 25°C/77°F)
	33.6AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	660A	
Internal Resistance	7.5mΩ	
Operating Temp. Range	Discharge:	-20°C (-4°F)~50°C (122°F)
	Charge:	-20°C (-4°F)~50°C (122°F)
	Storage:	-20°C (-4°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	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V		190.8	132.7	100.8	59.4	33.6	20.7	15.8	10.3	6.82	5.79	3.00
1.65V		173.0	122.2	94.30	56.3	32.4	20.0	15.3	9.98	6.75	5.73	2.98
1.70V		156.9	113.3	88.70	53.3	31.3	19.4	14.7	9.71	6.65	5.61	2.94
1.75V		142.5	103.9	83.10	51.3	30.4	18.7	14.3	9.46	6.56	5.56	2.89
1.80V		126.4	94.60	76.00	49.4	29.0	18.0	14.1	9.32	6.45	5.50	2.86
1.85V		94.10	74.00	62.90	41.8	25.9	16.5	13.1	8.60	6.08	5.19	2.83

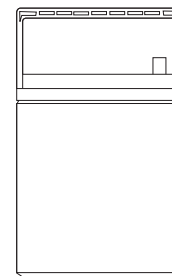
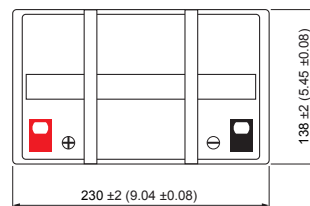
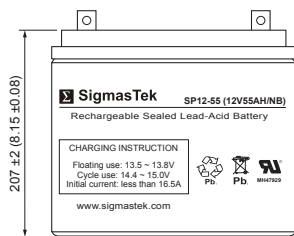
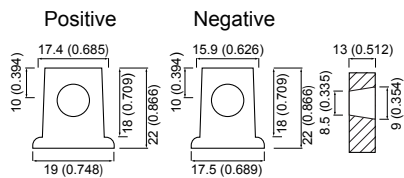
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell)	Discharge Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V		316.3	225.5	176.5	108.3	63.1	39.2	30.2	19.9	13.3	11.4	5.90
1.65V		293.6	212.6	167.8	103.3	61.2	38.1	29.4	19.3	13.2	11.3	5.58
1.70V		270.0	198.8	159.0	98.70	59.7	37.3	28.4	18.9	13.0	11.1	5.81
1.75V		252.2	186.6	151.0	95.40	58.0	35.9	27.6	18.4	12.9	11.0	5.70
1.80V		228.6	172.6	140.0	92.70	55.7	34.8	27.2	18.0	12.7	10.9	5.66
1.85V		172.1	136.7	117.4	79.70	50.0	32.1	25.5	16.9	12.0	10.3	5.61

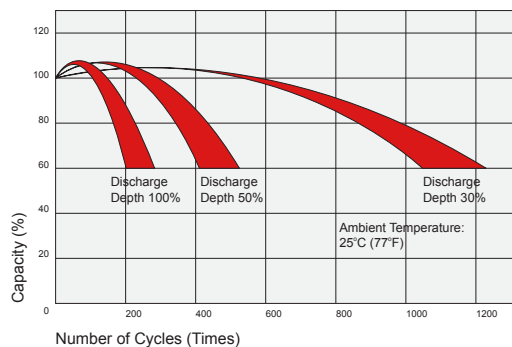
Dimensions

NB Terminal

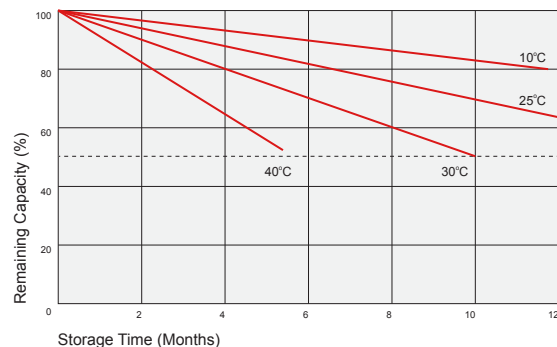
Unit: mm (inches)



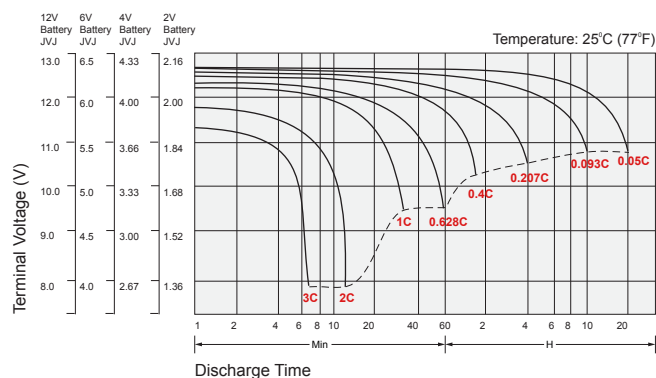
Cycle Service Life



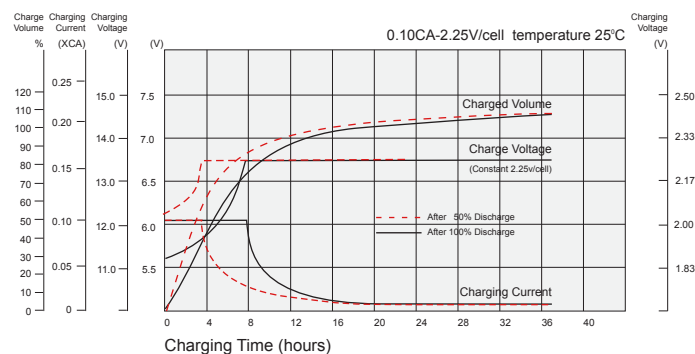
Self Discharge Characteristics



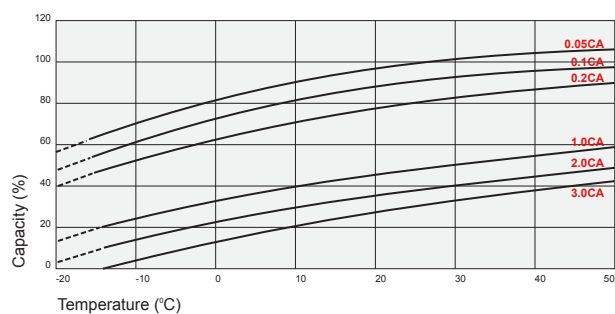
Discharge Characteristics



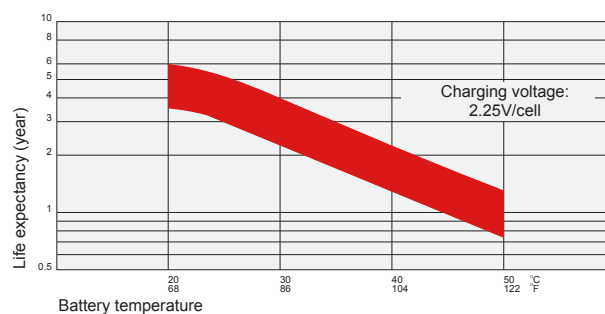
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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