

Specifications

Nominal Voltage	12V	
Nominal Capacity (20HR)	15AH	
Dimension	Length	151mm (5.95 inches)
	Width	98mm (3.86 inches)
	Height	94mm (3.70 inches)
	Total Height (with Terminal)	100mm (3.94 inches)
Approximate Weight	4.25 kg (9.37 lbs)	
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	T2	
Rated Capacity	14.0AH	(20hr, 1.75V/cell, 25°C/77°F)
	12.8AH	(10hr, 1.75V/cell, 25°C/77°F)
	12.1AH	(5hr, 1.75V/cell, 25°C/77°F)
	12.1AH	3hr, 1.60V/cell, 25°C/77°F)
	10.4AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	175A	
Internal Resistance	15mΩ	
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		62.0	40.6	32.0	18.3	10.4	5.77	4.04	2.54	1.63	1.33	0.73
1.67V		60.0	39.8	31.3	18.2	10.3	5.70	3.97	2.50	1.61	1.32	0.72
1.70V		57.5	38.9	30.6	17.8	10.2	5.62	3.90	2.46	1.59	1.30	0.71
1.75V		54.5	37.5	29.9	17.5	10.0	5.54	3.83	2.42	1.56	1.28	0.70
1.80V		47.1	34.7	29.3	17.2	9.70	5.44	3.75	2.37	1.53	1.25	0.69

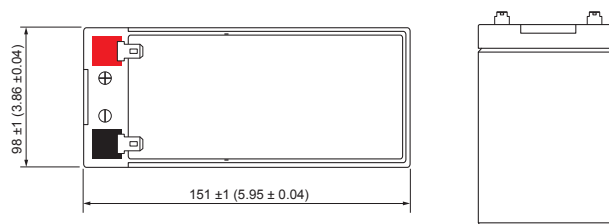
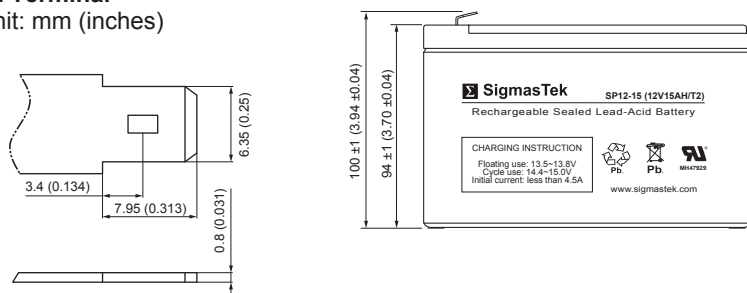
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell)	Discharge Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V		676.5	443.5	341.2	200	114.8	63.5	44.9	28.5	17.3	15.1	7.7
1.67V		657.4	434.8	334.4	198	112.2	62.6	44.2	28.0	17.0	14.9	7.6
1.70V		628.1	424.7	326.9	196	109.0	61.5	43.9	27.6	16.8	14.7	7.5
1.75V		594.8	409.8	317.2	192	107.3	60.4	42.9	27.2	16.5	14.4	7.5
1.80V		514.0	378.4	303.2	189	105.4	59.0	41.8	26.7	16.1	14.2	7.4

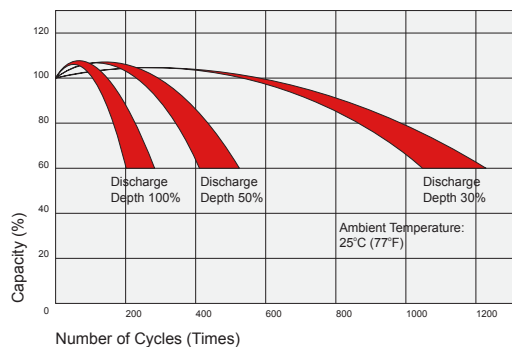
Dimensions

T2 Terminal

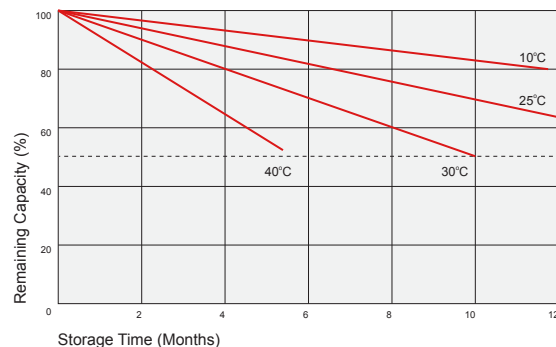
Unit: mm (inches)



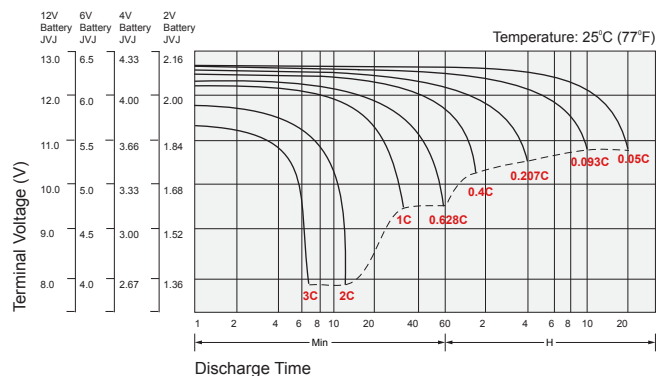
Cycle Service Life



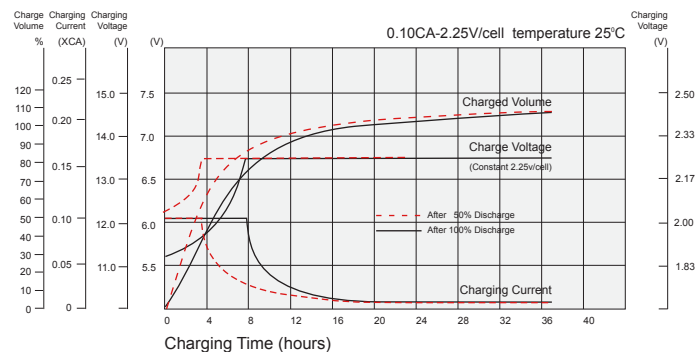
Self Discharge Characteristics



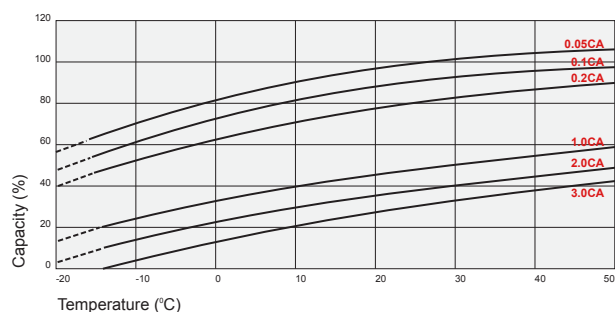
Discharge Characteristics



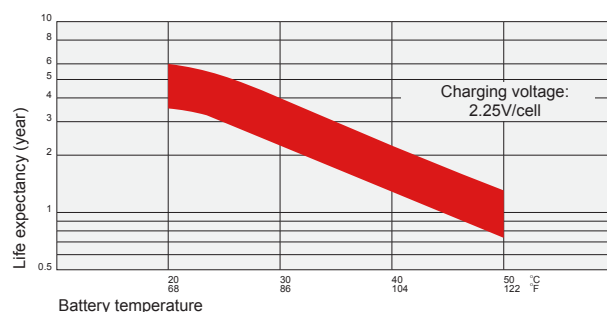
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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