

Specifications

Nominal Voltage	12V	
Nominal Capacity (20HR)	5.5AH	
Dimension	Length	90mm (3.54 inches)
	Width	70mm (2.76 inches)
	Height	101mm (3.98 inches)
	Total Height (with Terminal)	107mm (4.21 inches)
Approximate Weight	1.80 kg (3.97 lbs)	
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	T2 / T1	
Rated Capacity	6.06AH	(20hr, 1.75V/cell, 25°C/77°F)
	5.73AH	(10hr, 1.75V/cell, 25°C/77°F)
	5.10AH	(5hr, 1.75V/cell, 25°C/77°F)
	5.07AH	(3hr, 1.60V/cell, 25°C/77°F)
	3.77AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	75A	
Internal Resistance	25mΩ	
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 HR 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		23.2	15.7	11.6	6.90	3.77	2.19	1.69	1.11	0.727	0.603	0.314
1.67V		20.0	13.9	10.5	6.37	7.38	2.09	1.61	1.06	0.715	0.590	0.311
1.70V		19.0	13.4	10.2	6.20	3.65	2.07	1.57	1.05	0.709	0.584	0.308
1.75V		17.3	12.3	9.59	5.95	3.54	2.02	1.53	1.02	0.699	0.573	0.303
1.80V		15.3	11.2	8.78	5.73	3.38	1.95	1.50	0.99	0.687	0.558	0.300
1.85V		11.4	8.77	7.27	4.86	3.02	1.78	1.40	0.93	0.648	0.541	0.297

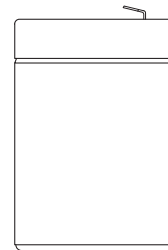
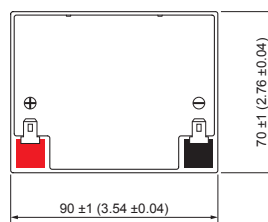
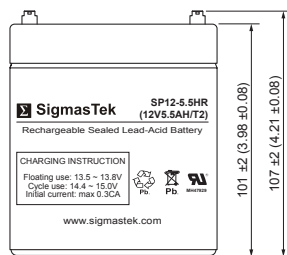
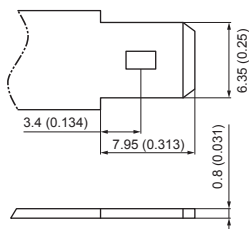
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell)	Discharge Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V		38.4	26.7	20.4	12.6	7.08	4.16	3.23	2.14	1.420	1.185	0.619
1.67V		34.2	24.4	18.9	11.8	6.99	3.99	3.09	2.06	1.400	1.164	0.613
1.70V		32.8	23.6	18.4	11.5	6.94	3.97	3.03	2.03	1.391	1.153	0.609
1.75V		30.6	22.1	17.4	11.1	6.75	3.88	2.95	1.98	1.373	1.131	0.599
1.80V		27.7	20.5	16.2	10.8	6.48	3.76	2.91	1.94	1.353	1.103	0.593
1.85V		20.9	16.2	13.6	9.26	5.82	3.47	2.72	1.82	1.279	1.071	0.588

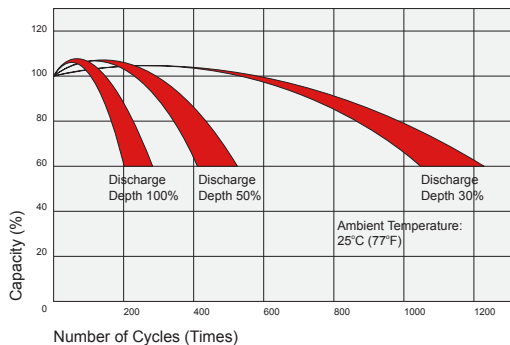
Dimensions

T2 Terminal

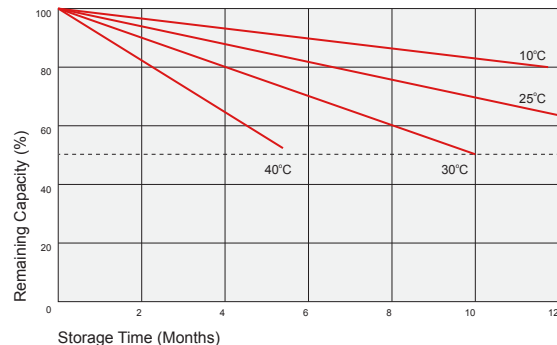
Unit: mm (inches)



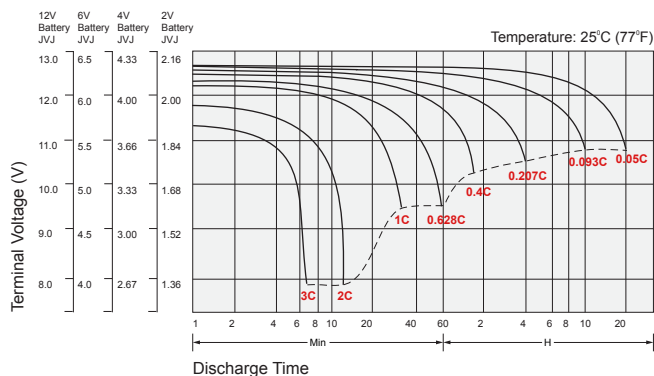
Cycle Service Life



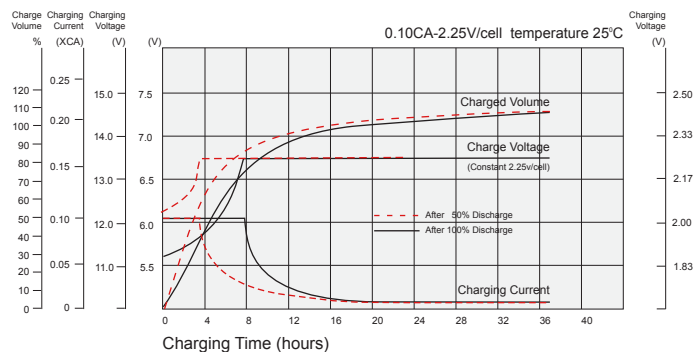
Self Discharge Characteristics



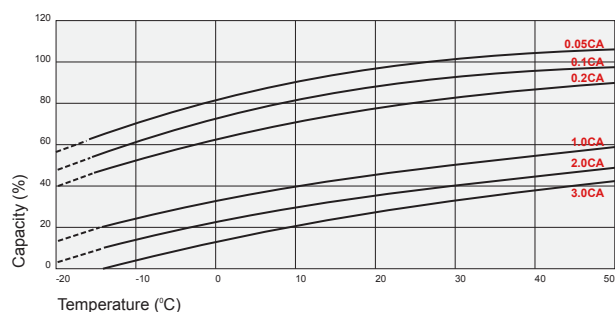
Discharge Characteristics



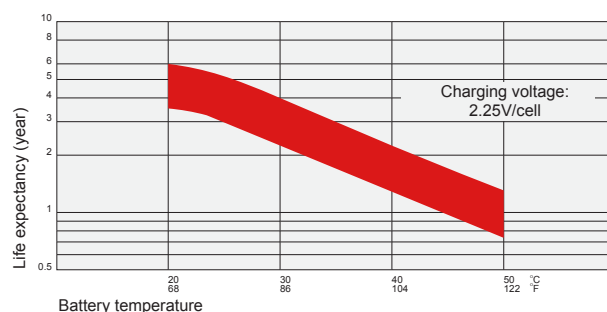
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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