

Specifications

Nominal Voltage	6V	
Nominal Capacity (20HR)	4.5AH	
Dimension	Length	70mm (2.76 inches)
	Width	47mm (1.86 inches)
	Height	100mm (3.94 inches)
	Total Height (with Terminal)	108mm (4.25 inches)
Approximate Weight	0.73 kg (1.61 lbs)	
Terminal Type	T1 / T2	
Rated Capacity	4.04AH	(20hr, 1.75V/cell, 25°C/77°F)
	3.82AH	(10hr, 1.75V/cell, 25°C/77°F)
	3.40AH	(5hr, 1.75V/cell, 25°C/77°F)
	3.39AH	(3hr, 1.60V/cell, 25°C/77°F)
	2.51AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	60A	
Internal Resistance	45mΩ	
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	Sigmas SP series batteries may be stored for up to 1 year 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) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	15.4	10.5	7.76	4.60	2.51	1.46	1.13	0.74	0.485	0.402	0.210
1.65V	14.0	9.66	7.26	4.36	2.49	1.40	1.09	0.72	0.480	0.398	0.208
1.70V	12.7	8.95	6.83	4.13	2.43	1.38	1.05	0.70	0.473	0.390	0.206
1.75V	11.5	8.21	6.39	3.97	2.36	1.35	1.02	0.68	0.466	0.382	0.202
1.80V	10.2	7.47	5.85	3.82	2.25	1.30	1.00	0.66	0.458	0.372	0.200
1.85V	7.62	5.85	4.85	3.24	2.01	1.19	0.93	0.62	0.432	0.361	0.198

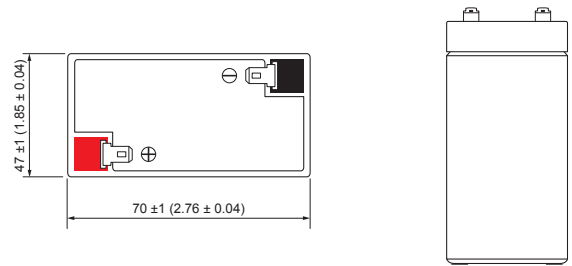
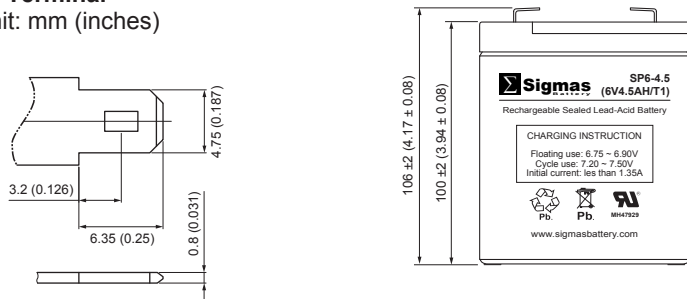
Constant Power Discharge (Watts) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	25.6	17.8	13.6	8.39	4.72	2.77	2.15	1.43	0.947	0.790	0.413
1.65V	23.8	16.8	12.9	8.00	4.70	2.67	2.10	1.39	0.939	0.783	0.411
1.70V	21.9	15.7	12.2	7.65	4.63	2.65	2.02	1.35	0.927	0.768	0.406
1.75V	20.4	14.8	11.6	7.39	4.50	2.59	1.97	1.32	0.915	0.754	0.399
1.80V	18.5	13.6	10.8	7.17	4.32	2.50	1.94	1.29	0.902	0.735	0.396
1.85V	13.9	10.8	9.04	6.17	3.88	2.31	1.81	1.21	0.853	0.714	0.392

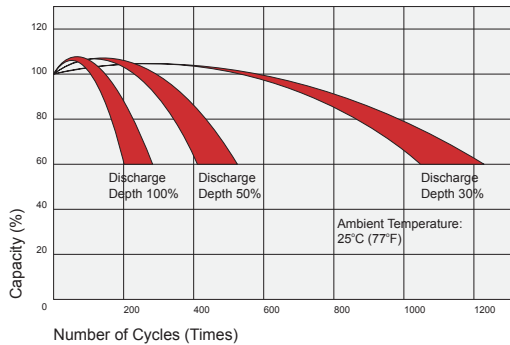
Dimensions

T1 Terminal

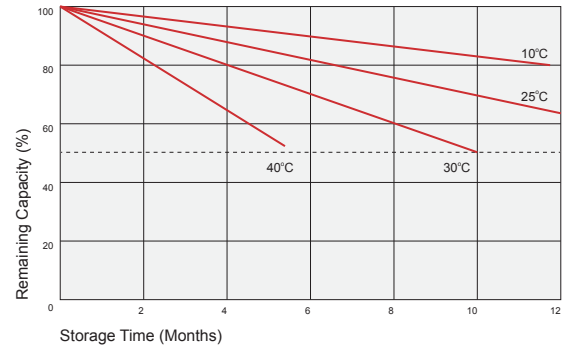
Unit: mm (inches)



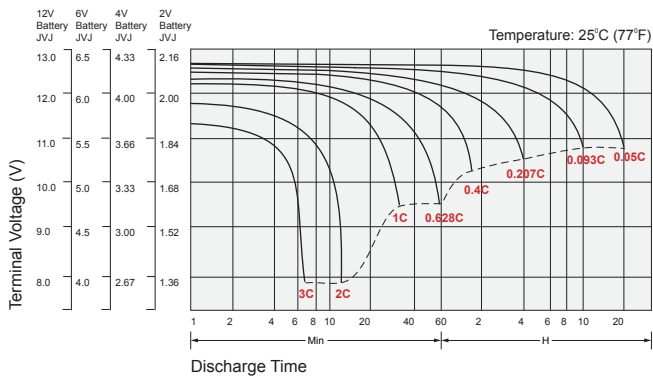
Cycle Service Life



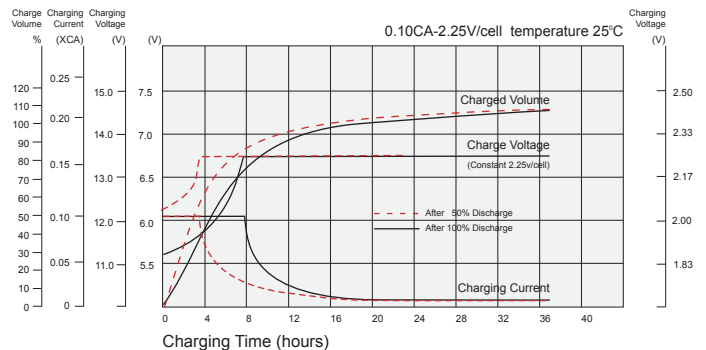
Self Discharge Characteristics



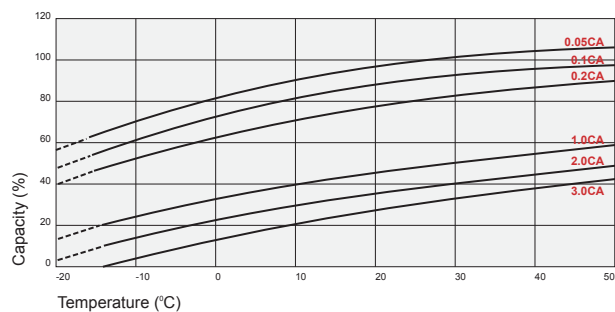
Discharge Characteristics



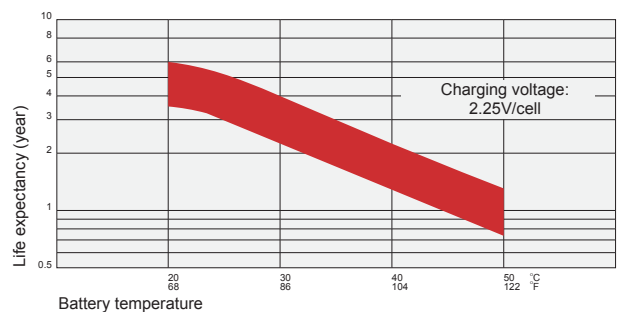
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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