

Specifications

Nominal Voltage	6V	
Nominal Capacity (20HR)	6.5AH	
Dimension	Length	98mm (3.86 inches)
	Width	56mm (2.20 inches)
	Height	96mm (3.78 inches)
	Total Height (with Terminal)	102mm (4.02 inches)
	Approximate Weight	1.22 kg (2.69 lbs)
Battery Type	Valve Regulated Lead-Acid Battery, AGM Designz	
Terminal Type	RT	
Rated Capacity	6.56AH	(20hr, 1.75V/cell, 25°C/77°F)
	6.21AH	(10hr, 1.75V/cell, 25°C/77°F)
	5.55AH	(5hr, 1.75V/cell, 25°C/77°F)
	5.49AH	(3hr, 1.60V/cell, 25°C/77°F)
	4.08AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	97.5A	
Internal Resistance	20mΩ	
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	25.1	17.0	12.6	7.48	4.08	2.37	1.83	1.20	0.788	0.653	0.341
1.65V	22.7	15.7	11.8	7.08	4.04	2.28	1.78	1.16	0.780	0.646	0.339
1.70V	20.6	14.5	11.1	6.71	3.95	2.24	1.70	1.13	0.768	0.633	0.334
1.75V	18.7	13.3	10.39	6.45	3.83	2.19	1.66	1.11	0.757	0.621	0.328
1.80V	16.6	12.1	9.51	6.21	3.66	2.11	1.63	1.08	0.744	0.605	0.325
1.85V	12.4	9.51	7.87	5.26	3.27	1.93	1.51	1.00	0.702	0.586	0.322

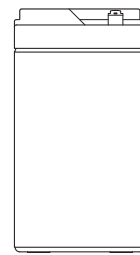
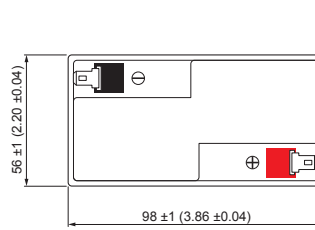
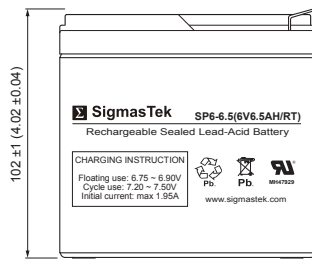
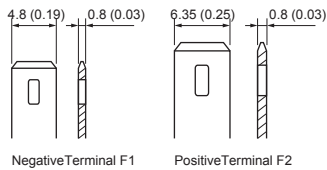
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	41.6	29.0	22.1	13.6	7.67	4.50	3.50	2.32	1.538	1.284	0.671
1.65V	38.6	27.3	21.0	13.0	7.64	4.34	3.41	2.25	1.526	1.272	0.668
1.70V	35.5	25.5	19.9	12.4	7.52	4.30	3.28	2.20	1.507	1.249	0.660
1.75V	33.2	24.0	18.9	12.0	7.32	4.20	3.20	2.15	1.487	1.225	0.648
1.80V	30.1	22.2	17.5	11.7	7.02	4.07	3.15	2.10	1.465	1.194	0.643
1.85V	22.6	17.6	14.7	10.0	6.31	3.75	2.95	1.97	1.385	1.160	0.637

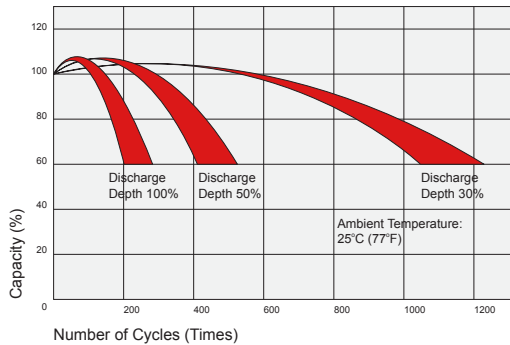
Dimensions

RT Terminal

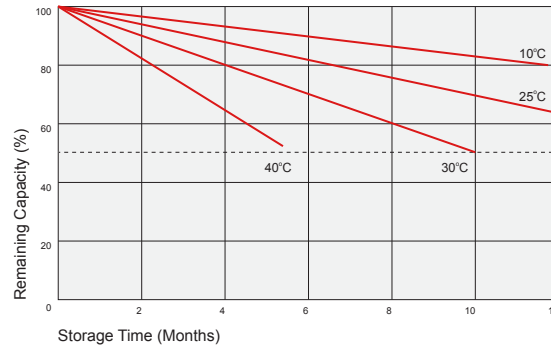
Unit: mm (inches)



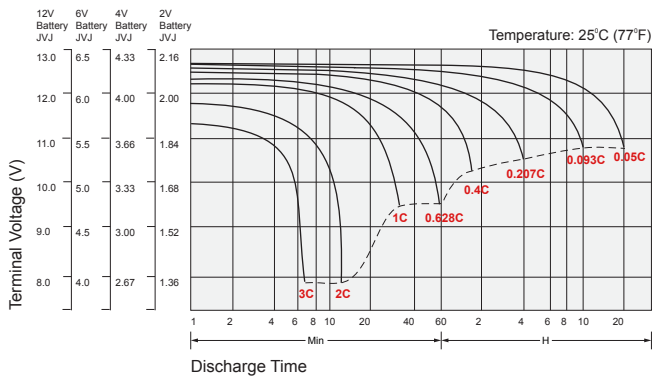
Cycle Service Life



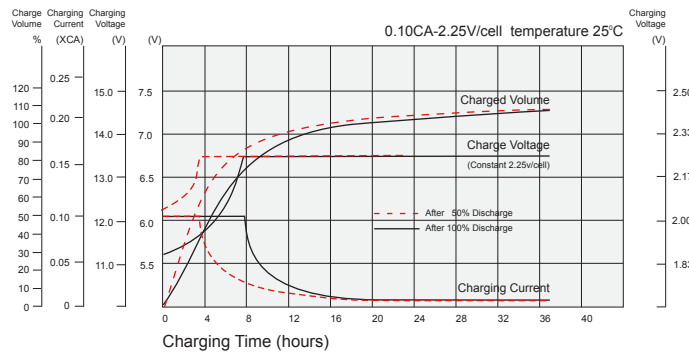
Self Discharge Characteristics



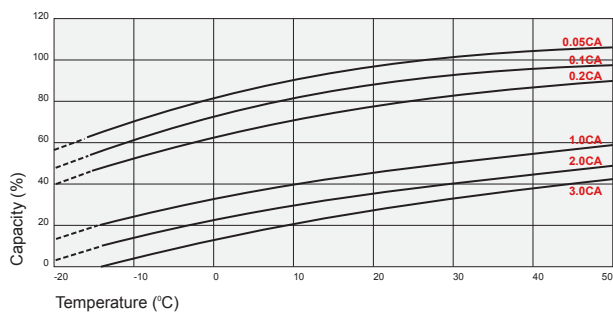
Discharge Characteristics



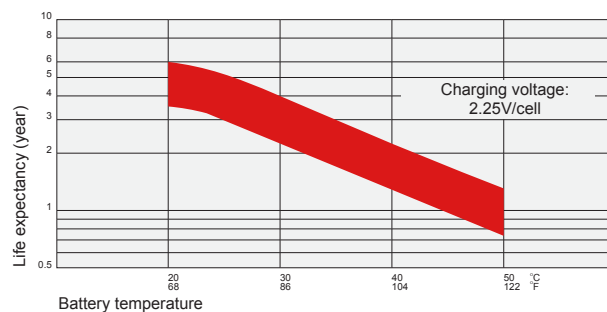
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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