

Specifications

Nominal Voltage	2V	
Nominal Capacity (10HR)	500AH	
Dimension	Length	240mm (9.45 inches)
	Width	175mm (6.89 inches)
	Height	330mm (12.99 inches)
	Total Height (with Terminal)	350mm (13.78 inches)
	Approximate Weight	30.5 kg (67.2 lbs)
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	IT	
Rated Capacity	534.0AH	(20hr, 1.80V/cell, 25°C/77°F)
	500.0AH	(10hr, 1.80V/cell, 25°C/77°F)
	443.5AH	(5hr, 1.75V/cell, 25°C/77°F)
	386.1AH	(3hr, 1.75V/cell, 25°C/77°F)
	300.3AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	4000A	
Internal Resistance	0.6mΩ	
Operating Temp. Range	Discharge:	-15°C (5°F)~50°C (122°F)
	Charge:	0°C (32°F)~40°C (104°F)
	Storage:	-15°C (5°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 SPL 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

- Tele - communication central station (wired or cellular)
- Military communication
- Data and television signal transmission
- UPS
- EPS



Constant Current Discharge (Amperes Per Battery) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	/	370.0	300.3	185.0	138.0	110.9	93.5	81.0	64.4	52.6	27.6
1.65V	469.2	360.3	293.4	181.5	135.7	109.4	92.2	79.9	63.4	51.9	27.4
1.70V	447.3	345.3	283.2	175.8	132.7	107.1	90.3	78.5	62.5	51.3	27.1
1.75V	426.3	332.8	273.6	169.0	128.7	104.8	88.7	77.2	61.4	50.7	26.8
1.80V	402.6	316.5	262.3	162.5	124.5	101.4	86.1	75.4	60.3	50.0	26.7
1.85V	375.2	300.8	250.8	155.5	118.7	97.00	82.6	72.2	57.8	48.2	25.8

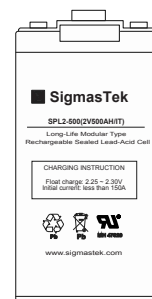
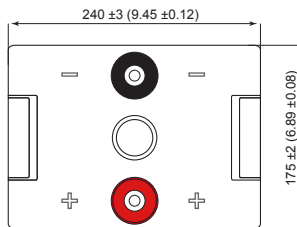
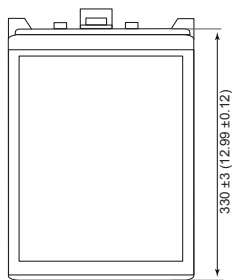
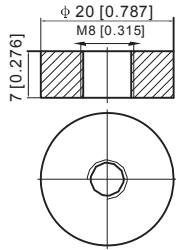
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	/	687.3	564.9	351.5	264.2	213.5	180.9	157.7	126.4	103.9	54.6
1.65V	868.8	675.6	555.8	347.0	261.0	211.5	179.1	156.0	124.8	102.6	54.3
1.70V	834.4	651.1	539.5	337.4	256.4	207.8	175.9	153.9	123.3	101.6	53.8
1.75V	802.0	631.8	524.0	325.8	249.6	204.2	173.5	151.4	121.3	100.5	53.2
1.80V	763.1	604.5	504.5	314.6	242.2	198.1	168.8	148.4	119.2	99.30	53.0
1.85V	717.0	578.3	485.1	302.5	231.9	190.3	162.8	142.6	114.6	95.80	51.3

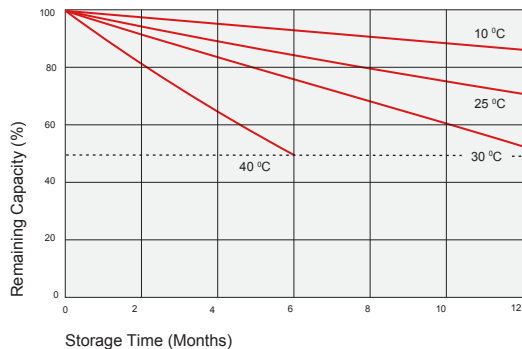
Dimensions

IT Terminal

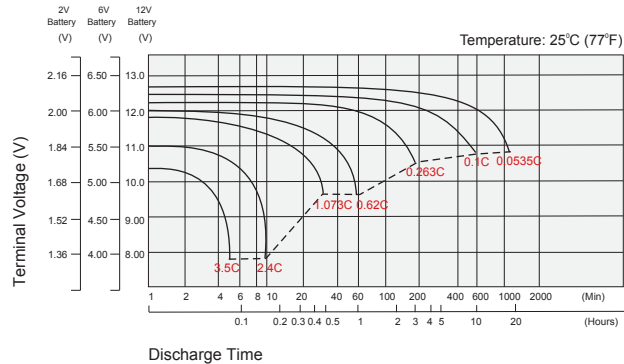
Unit: mm (inches)



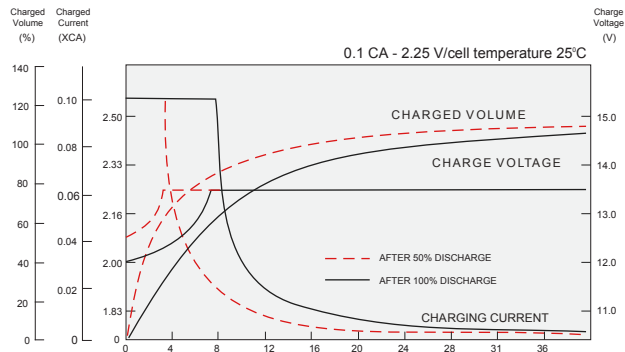
Self Discharge Characteristics



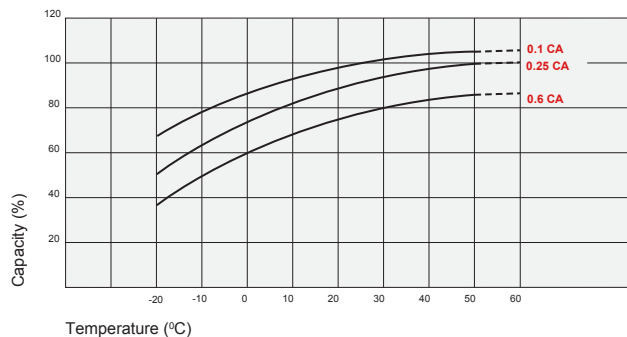
Discharge Characteristics



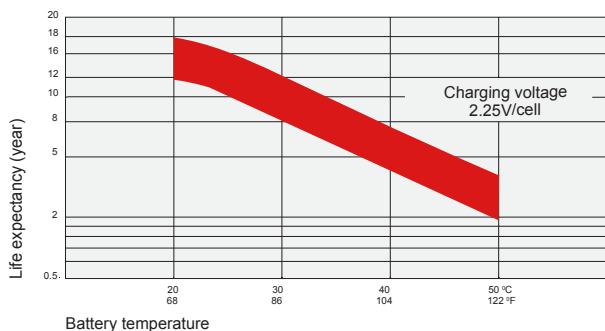
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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