

### Specifications

Nominal Voltage	2V	
Nominal Capacity (10HR)	300AH	
Dimension	Length	170mm (6.69 inches)
	Width	150mm (5.91 inches)
	Height	328mm (12.91 inches)
	Total Height (with Terminal)	350mm (13.78 inches)
	Approximate Weight	18.7 kg (41.2 lbs)
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	IT	
Rated Capacity	320.0AH	(20hr, 1.80V/cell, 25°C/77°F)
	300.0AH	(10hr, 1.80V/cell, 25°C/77°F)
	266.0AH	(5hr, 1.75V/cell, 25°C/77°F)
	231.6AH	(3hr, 1.75V/cell, 25°C/77°F)
	180.2AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2400A	
Internal Resistance	0.9mΩ	
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	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	444.4	379.8	291.2	222.0	180.2	111.0	82.8	66.6	56.1	48.6	38.6	31.6	16.5
1.65V	423.9	366.3	281.5	216.2	176.0	108.9	81.4	65.6	55.3	47.9	38.1	31.1	16.4
1.70V	402.3	349.1	268.4	207.2	169.9	105.5	79.6	64.3	54.2	47.1	37.5	30.8	16.3
1.75V	376.8	326.3	255.8	199.7	164.2	101.4	77.2	62.9	53.2	46.3	36.9	30.4	16.1
1.80V	343.0	302.7	241.5	189.9	157.4	97.50	74.7	60.8	51.7	45.2	36.2	30.0	16.0
1.85V	301.8	271.8	225.1	180.5	150.5	93.30	71.2	58.2	49.6	43.3	34.7	28.9	15.5

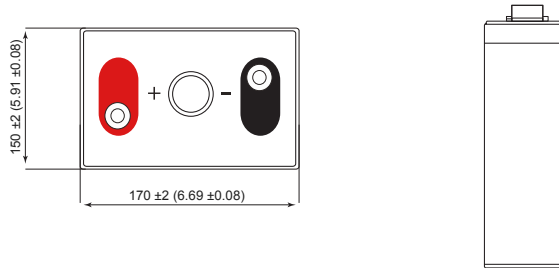
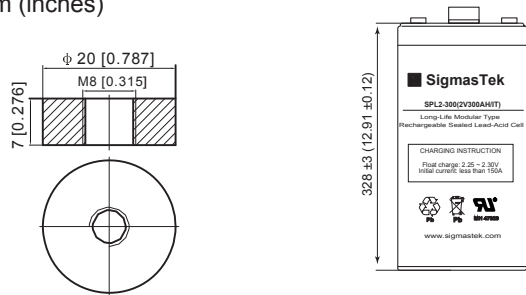
### Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	787.1	685.1	533.7	412.4	338.9	210.9	158.5	128.1	108.6	94.6	75.8	62.4	32.7
1.65V	763.5	668.4	521.3	405.4	333.5	208.2	156.6	126.9	107.4	93.6	74.9	61.6	32.6
1.70V	733.7	644.0	500.7	390.7	323.7	202.5	153.8	124.7	105.6	92.3	74.0	61.0	32.3
1.75V	694.4	607.1	481.2	379.1	314.4	195.5	149.8	122.5	104.1	90.9	72.8	60.3	31.9
1.80V	641.1	569.7	457.9	362.7	302.7	188.7	145.3	118.9	101.3	89.0	71.5	59.6	31.8
1.85V	571.4	517.0	430.2	347.0	291.1	181.5	139.1	114.2	97.70	85.6	68.8	57.5	30.8

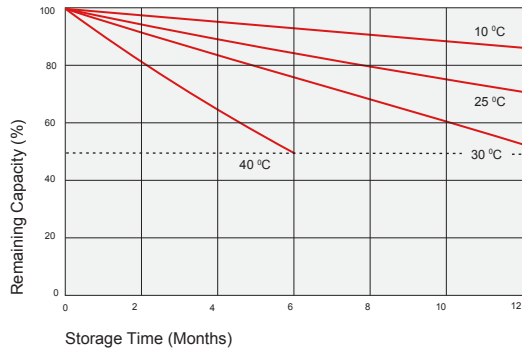
## Dimensions

### IT Terminal

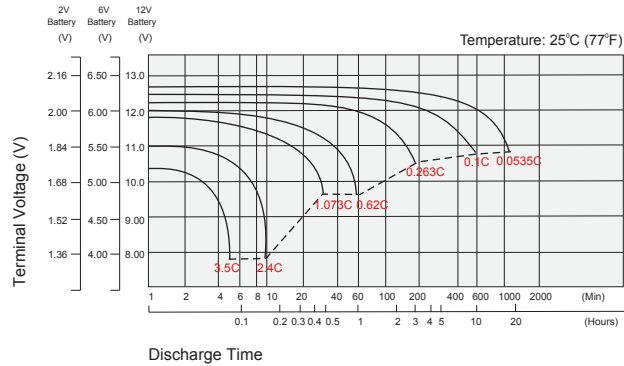
Unit: mm (inches)



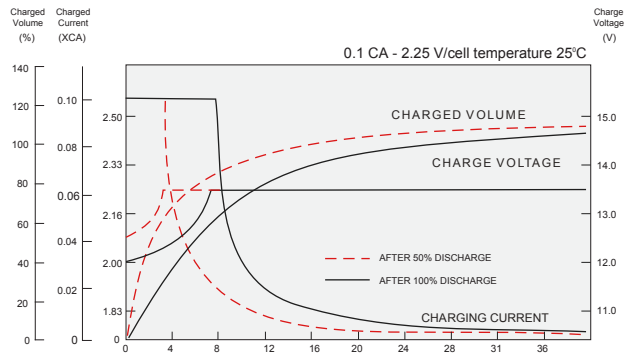
## Self Discharge Characteristics



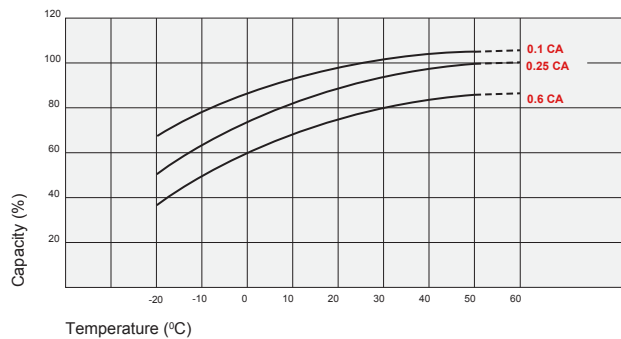
## Discharge Characteristics



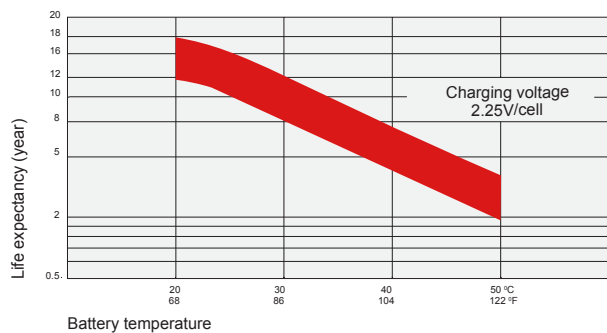
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Temperature Effects on Long Term Float Life



## Contact Information

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