

### Specifications

Nominal Voltage	12V	
Nominal Capacity (8HR)	180AH	
Dimension	Length	560mm (22.05 inches)
	Width	126mm (4.96 inches)
	Height	280mm (11.02 inches)
	Total Height (with Terminal)	280mm (11.02 inches)
	Approximate Weight	51.2 kg (112.9 lbs)
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	IT	
Rated Capacity	180.4AH	(20hr, 1.80V/cell, 25°C/77°F)
	170.0AH	(10hr, 1.80V/cell, 25°C/77°F)
	164.0AH	(8hr, 1.80V/cell, 25°C/77°F)
	155.0AH	(5hr, 1.75V/cell, 25°C/77°F)
	113.5AH	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	1360A	
Internal Resistance	2.9mΩ	
Operating Temp. Range	Discharge:	-15°C (5°F)~50°C (122°F)
	Charge:	-15°C (5°F)~50°C (122°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 SPF 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

- Standard 19 & 23 inch power cabinets
- Solar power stations
- Network communication equipment
- UPS and standby power supply
- Power station systems
- Railway and marine systems



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

F.V. (V/cell) \ Discharge Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	412.9	321.4	267.3	196.6	146.1	116.4	66.9	48.5	38.9	32.3	27.9	21.8	17.9	9.32
1.67V	392.8	309.6	255.9	191.8	142.3	113.5	65.8	47.6	38.0	31.5	27.4	21.3	17.5	9.27
1.70V	379.6	302.1	250.7	189.4	141.8	113.0	65.6	47.3	37.8	31.2	27.1	21.0	17.4	9.22
1.75V	354.9	286.8	241.0	184.0	138.6	111.5	64.7	46.8	37.5	31.0	26.7	20.7	17.2	9.15
1.80V	323.4	265.0	225.8	175.1	133.5	107.7	63.5	46.1	36.6	30.3	26.3	20.5	17.0	9.02
1.85V	285.2	237.8	204.0	160.0	124.1	100.9	60.2	43.3	34.8	28.8	25.1	19.5	16.3	8.62

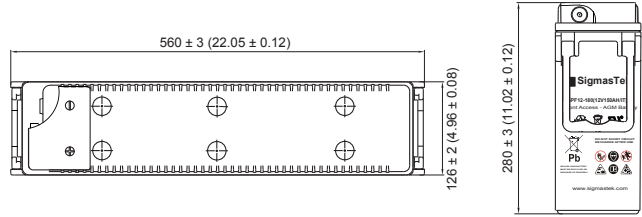
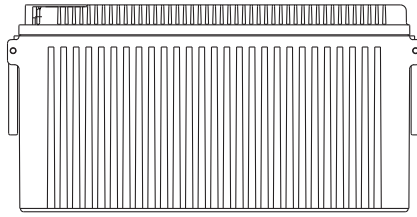
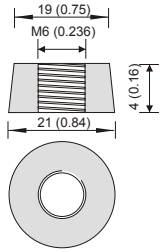
### Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	710.1	568.9	484.5	362.4	273.9	221.2	128.3	93.7	75.4	62.9	54.6	43.0	35.5	18.6
1.67V	694.8	558.9	470.4	358.1	269.8	217.8	127.3	92.4	74.3	61.6	53.7	42.2	34.9	18.5
1.70V	674.0	547.6	462.7	354.4	269.7	217.4	127.1	92.1	73.8	61.0	53.2	41.7	34.6	18.4
1.75V	644.5	527.2	448.1	346.2	264.6	215.2	125.6	91.3	73.5	60.9	52.7	41.2	34.3	18.3
1.80V	596.8	493.1	424.0	332.1	257.3	208.7	123.7	90.3	71.9	59.7	52.1	40.8	34.0	18.0
1.85V	532.6	448.4	388.7	308.2	241.0	196.6	118.0	85.3	68.7	57.0	49.7	38.9	32.5	17.3

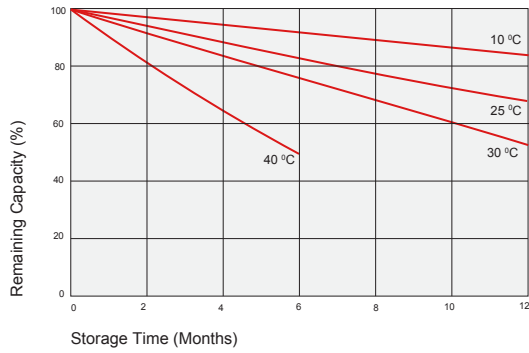
## Dimensions

### IT Terminal

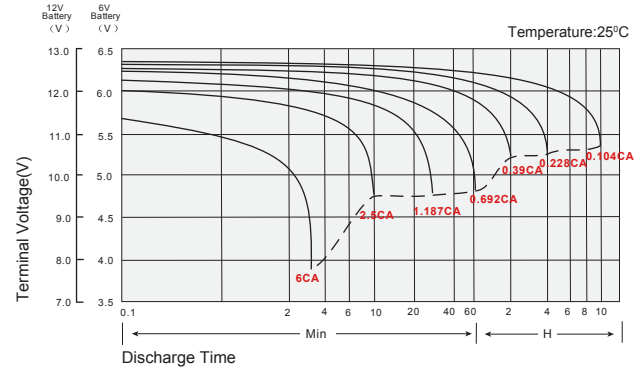
Unit: mm (inches)



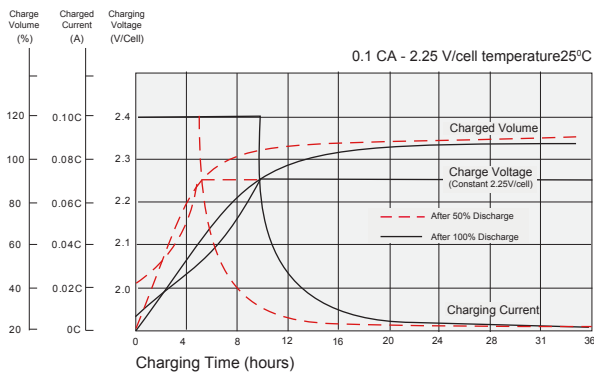
## Self Discharge Characteristics



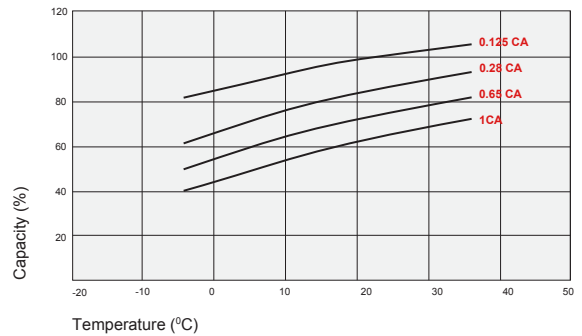
## Discharge Characteristics



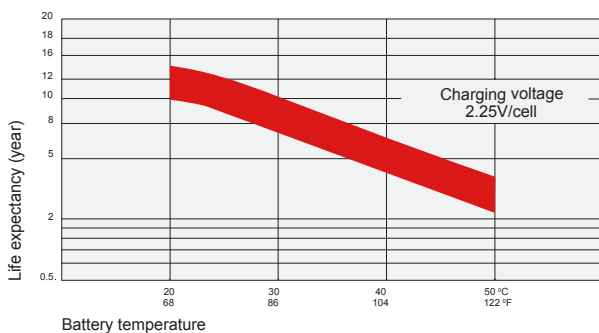
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Temperature Effects on Long Term Float Life



## Contact Information

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