

### Specifications

Nominal Voltage	2V	
Nominal Capacity	800AH	10HR (1.80V/cell)
Dimension	Length	191mm (7.52 inches)
	Width	210mm (8.27 inches)
	Height	645mm (25.4 inches)
	Total Height (with Terminal)	681mm (26.8 inches)
	Approximate Weight	64.5 kg (142.2 lbs)
Battery Type	Valve Regulated Lead-Acid Battery, Gel Design	
Terminal Type	IT	
Rated Capacity	800AH	(10hr, 1.80V/cell, 25°C/77°F)
	690AH	(5hr, 1.75V/cell, 25°C/77°F)
	609AH	(3hr, 1.75V/cell, 25°C/77°F)
	454AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	6400A	
Internal Resistance	0.5mΩ	
Operating Temp. Range	Discharge:	-20°C (-4°F)~55°C (131°F)
	Charge:	0°C (32°F)~40°C (104°F)
	Storage:	-20°C (-4°F)~50°C (122°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 SPZ series batteries may be stored for up to 6 months at 20°C (68°F) and then a freshening charge is recommended. For higher temperatures the time interval will be shorter.	



### Applications

- Solar and wind energy
- Electric and nuclear power
- Communication
- Ship and maritime affairs
- Uninterruptible Power Supply (UPS)
- Emergency lighting
- Medical devices



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

F.V. (V/cell) \ Discharge Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.60V	1001	838	626	454	283	214	144	98.8	83.6
1.65V	956.0	809	610	446	279	211	142	98.0	83.0
1.70V	891.0	766	587	434	273	207	140	96.8	82.2
1.75V	794.0	702	554	418	267	203	138	95.6	81.3
1.80V	671.0	627	520	401	259	199	135	94.0	80.0
1.85V	545.0	518	446	356	236	183	126	87.8	74.9

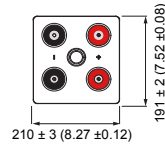
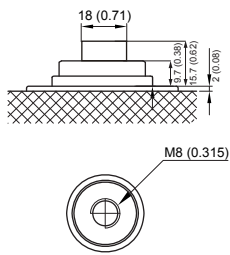
### Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.60V	1701	1464	1137	850	536	409	278	193	165
1.65V	1657	1435	1120	841	532	406	276	193	164
1.70V	1571	1379	1088	823	524	400	273	191	163
1.75V	1425	1282	1038	798	513	394	270	189	161
1.80V	1226	1162	984.0	771	502	387	265	186	159
1.85V	1014	973.0	853.0	689	459	357	247	174	149

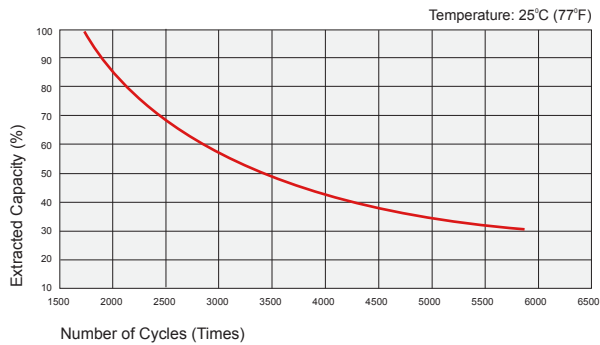
## Dimensions

### IT Terminal

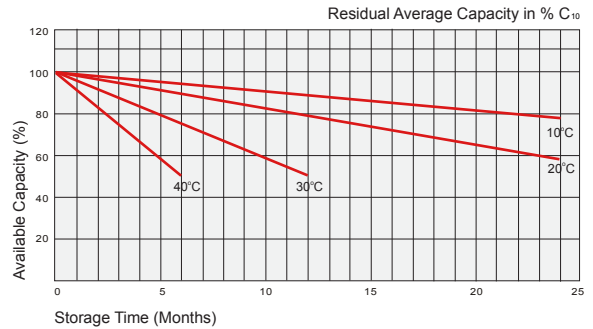
Unit: mm (inches)



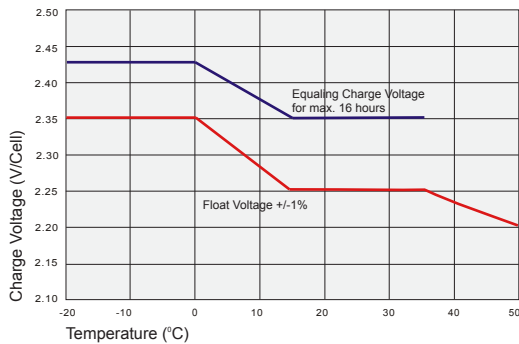
## Cycle Service Life



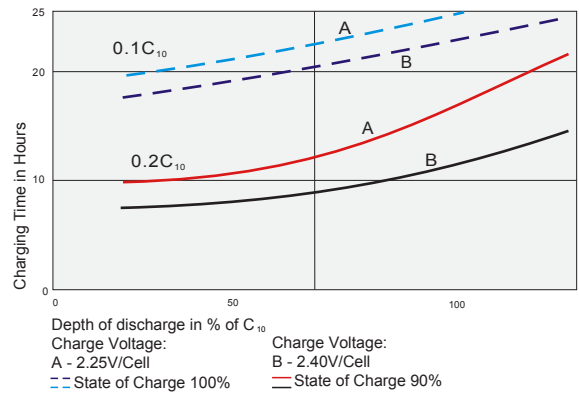
## Self Discharge Characteristics



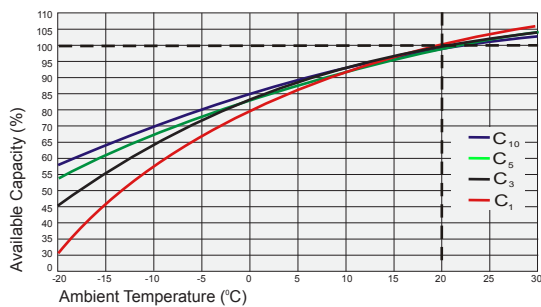
## Discharge Characteristics



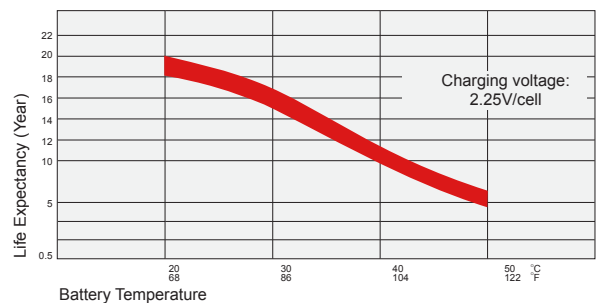
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Temperature Effects on Long Term Float Life



## Contact Information

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