

Specifications

Nominal Voltage	12V	
Nominal Capacity (10HR)	200AH	
Dimension	Length	533mm (20.98 inches)
	Width	208mm (8.18 inches)
	Height	209mm (8.22 inches)
	Total Height (with Terminal)	234mm (9.21 inches)
	Approximate Weight	58 kg (127.7 lbs)
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	IT	
Rated Capacity	208 AH	(20hr, 1.80V/cell, 25°C/77°F)
	200 AH	(10hr, 1.80V/cell, 25°C/77°F)
	175 AH	(5hr, 1.75V/cell, 25°C/77°F)
	159 AH	(3hr, 1.75V/cell, 25°C/77°F)
	109 AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2000A (5s)	
Internal Resistance (1KHz)	4 mΩ	
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. \ Discharge Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	434	330	194	109	68	53	35	24	20	10.4
1.65V	400	308	184	106	65	52	34	23	19	10.3
1.70V	370	290	174	102	64	51	33	23	19	10.2
1.75V	340	271	167	99	61	50	33	22	18	10.1
1.80V	309	245	161	95	59	49	32	21	18	10.0

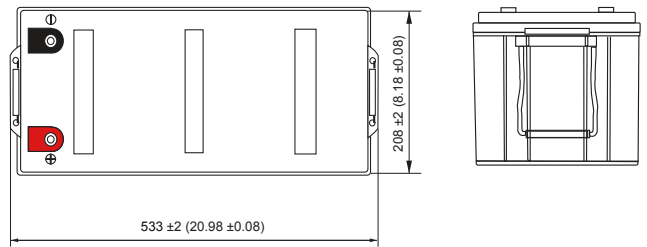
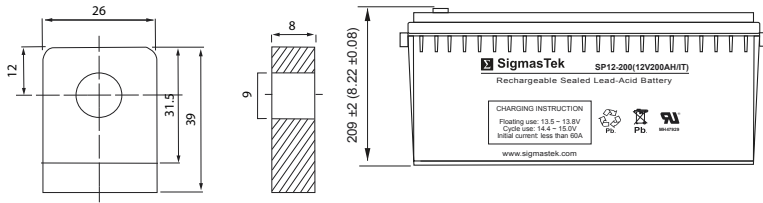
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. \ Discharge Time	10min	15min	30min	1h	2h	3h	5h	6h	10h	20h
1.60V	4428	3462	2124	1236	768	593	390	61.9	223	120
1.65V	4140	3294	2028	1200	744	578	378	60.8	221	117
1.70V	3900	3120	1938	1170	732	557	372	59.7	217	115
1.75V	3660	2964	1872	1134	702	542	366	58.6	215	115
1.80V	3384	2748	1700	1092	708	534	360	57.2	213	112

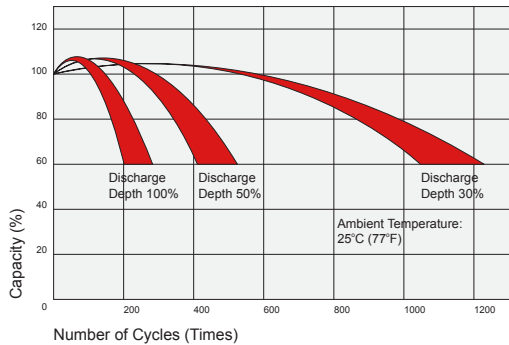
Dimensions

IT Terminal

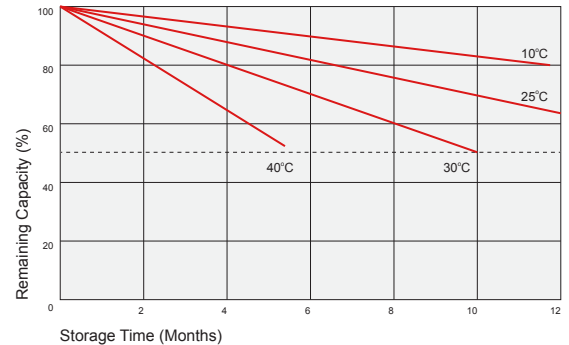
Unit: mm (inches)



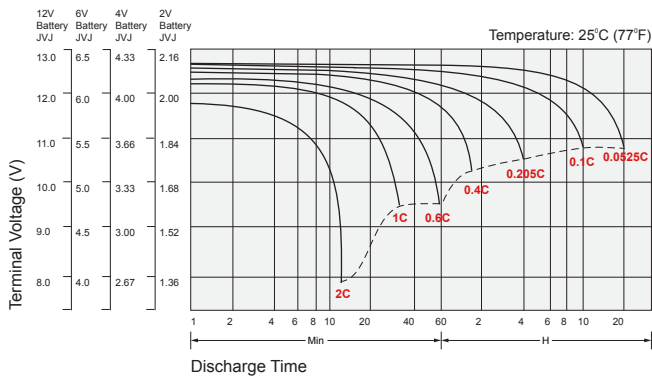
Cycle Service Life



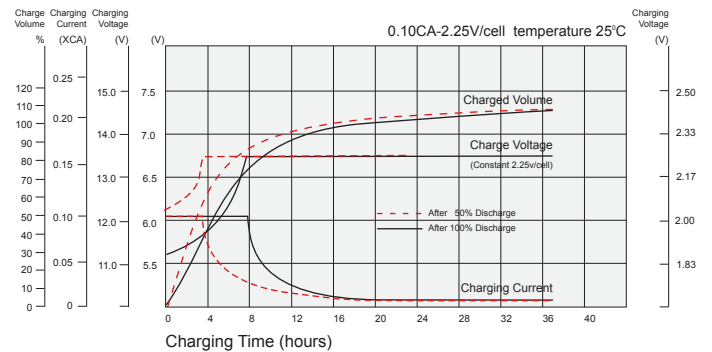
Self Discharge Characteristics



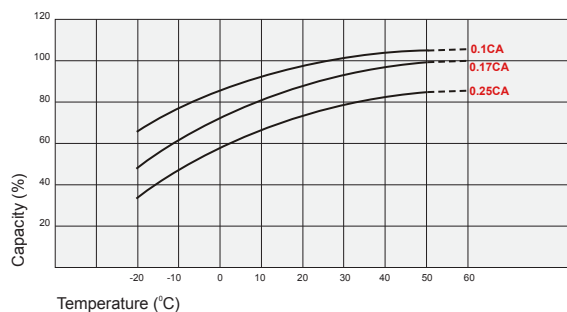
Discharge Characteristics



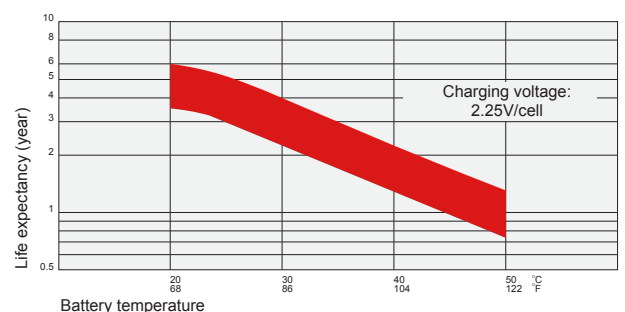
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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