

Specifications

Nominal Voltage	2V	
Nominal Capacity	3000AH	10HR (1.80V/cell)
Dimension	Length	576mm (20.7 inches)
	Width	212mm (8.35 inches)
	Height	772mm (30.4 inches)
	Total Height (with Terminal)	808mm (31.8 inches)
	Approximate Weight	232.24 kg (512 lbs)
Battery Type	Valve Regulated Lead-Acid Battery, Gel Design	
Terminal Type	IT	
Rated Capacity	3000AH	(10hr, 1.80V/cell, 25°C/77°F)
	2565AH	(5hr, 1.75V/cell, 25°C/77°F)
	2262AH	(3hr, 1.75V/cell, 25°C/77°F)
	1697AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	24000A	
Internal Resistance	0.18mΩ	
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	3212	2762	2191	1697	1044	793.0	535.0	368.0	314.0
1.65V	3071	2667	2136	1668	1031	783.0	529.0	365.0	311.0
1.70V	2859	2526	2054	1621	1009	769.0	521.0	361.0	308.0
1.75V	2548	2314	1940	1561	984.0	754.0	513.0	356.0	305.0
1.80V	2154	2068	1820	1500	957.0	737.0	504.0	350.0	300.0
1.85V	1751	1708	1562	1332	871.0	677.0	467.0	327.0	281.0

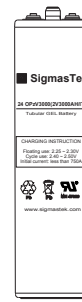
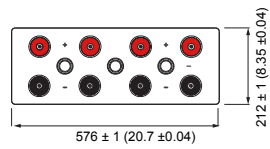
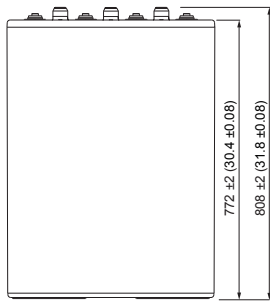
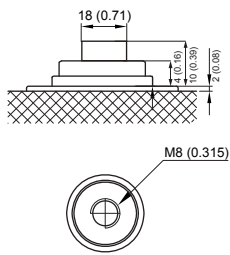
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.60V	5460	4828	3979	3177	1979	1515	1033	721.0	619.0
1.65V	5320	4731	3920	3143	1963	1504	1026	717.0	615.0
1.70V	5045	4548	3807	3076	1932	1483	1015	710.0	610.0
1.75V	4576	4228	3634	2981	1893	1460	1002	703.0	604.0
1.80V	3936	3831	3444	2883	1852	1433	987.0	693.0	596.0
1.85V	3257	3210	2985	2577	1694	1323	918.0	648.0	559.0

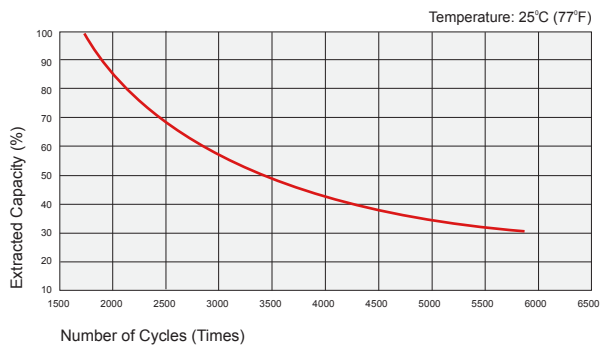
Dimensions

IT Terminal

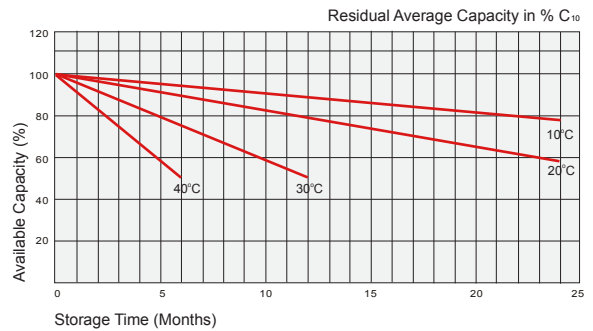
Unit: mm (inches)



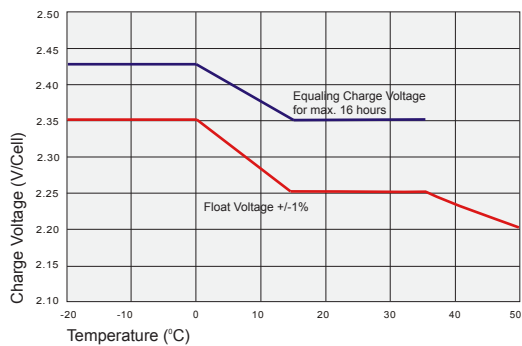
Cycle Service Life



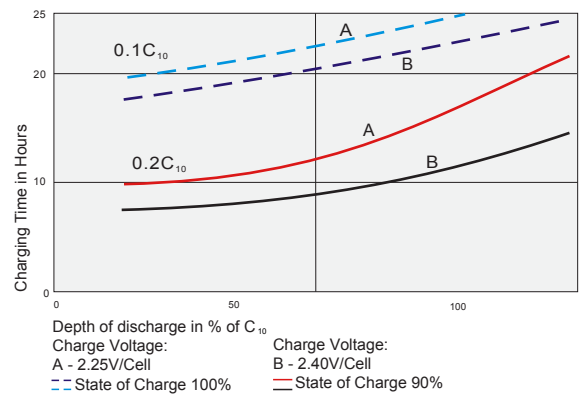
Self Discharge Characteristics



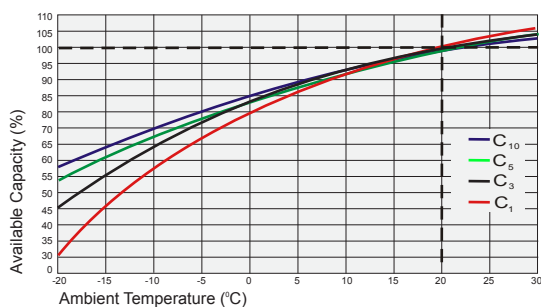
Discharge Characteristics



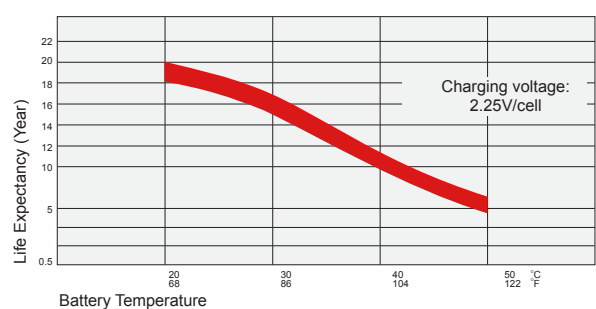
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



Contact Information

SigmatTek
7651 W 100th Place
Bridgeview, IL 60455, USA

T: (888) 988-8290
www.sigmastek.com
order@sigmastek.com