

Specifications

Nominal Voltage	12V	
Nominal Capacity (20HR)	250AH	
Dimension	Length	525mm (20.67 inches)
	Width	270mm (10.63 inches)
	Height	221mm (8.70 inches)
	Total Height (with Terminal)	250mm (9.84 inches)
Approximate Weight	72 kg (159 lbs)	
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	NB	
Rated Capacity	260.0AH	(20hr, 1.80V/cell, 25°C/77°F)
	250.0AH	(20hr, 1.75V/cell, 25°C/77°F)
	215.0AH	(5hr, 1.75V/cell, 25°C/77°F)
	195.3AH	(3hr, 1.75V/cell, 25°C/77°F)
	152.5AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2500A (5s)	
Internal Resistance	3mΩ	
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)~50°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. (V/cell)	Discharge Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V		487.0	405.0	262.0	155.0	96.9	73.0	47.2	30.5	25.4	13.32
1.67V		476.0	369.8	246.5	150.5	94.5	71.2	47.0	30.3	25.3	13.26
1.70V		444.0	345.4	233.2	145.5	91.1	68.4	46.5	30.2	25.2	13.20
1.75V		424.0	331.0	213.6	137.5	86.5	65.0	46.0	30.1	25.1	13.16
1.80V		395.0	300.0	198.6	126.1	83.2	62.5	45.6	30.0	25.0	13.13

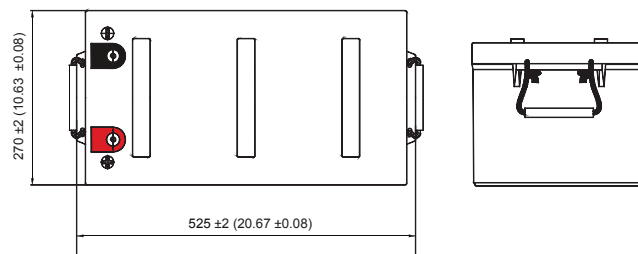
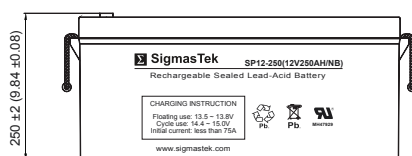
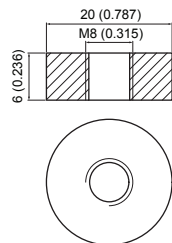
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell)	Discharge Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V		5562	4681	3230	1853	1114	845	558	360	294	157
1.67V		5422	4583	2164	1815	1092	828	555	352	287	154
1.70V		5388	4482	3060	1794	1060	816	550	351	285	153
1.75V		4720	4123	2652	1689	1008	6760	543	348	278	150
1.80V		4450	3856	2486	1612	973	734	532	342	269	146

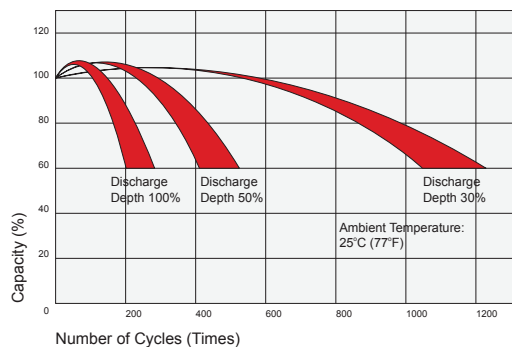
Dimensions

IT Terminal

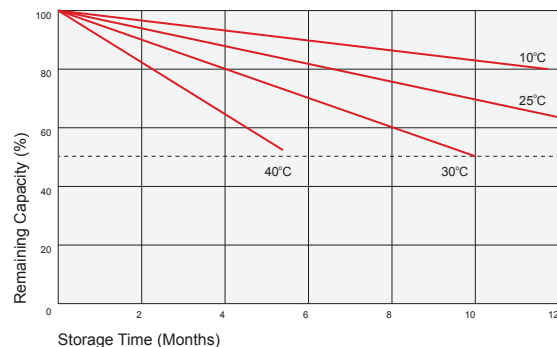
Unit: mm (inches)



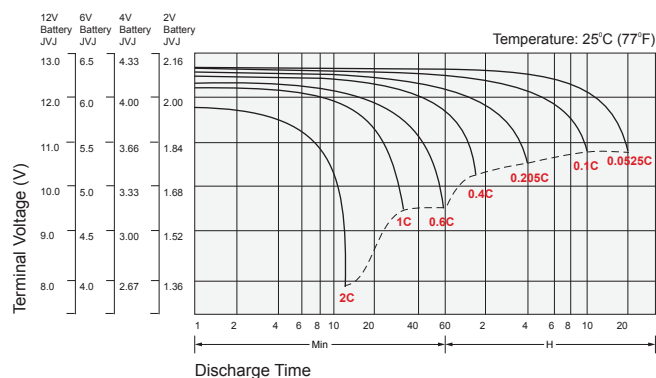
Cycle Service Life



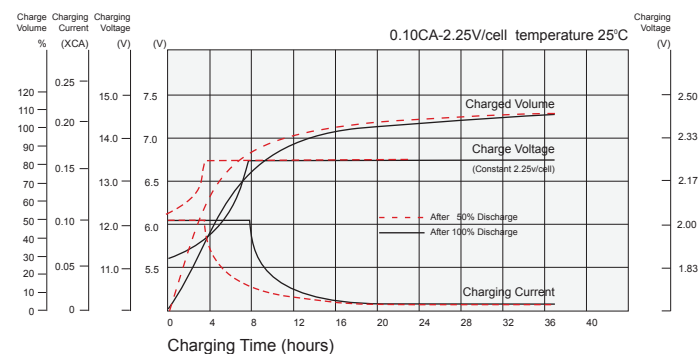
Self Discharge Characteristics



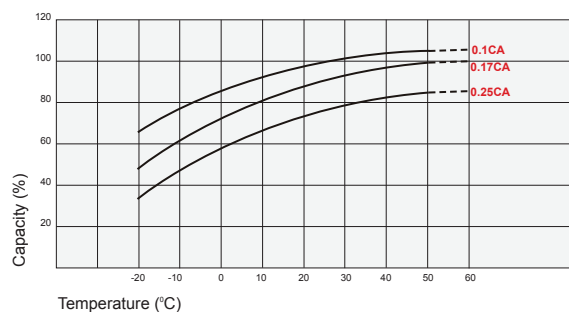
Discharge Characteristics



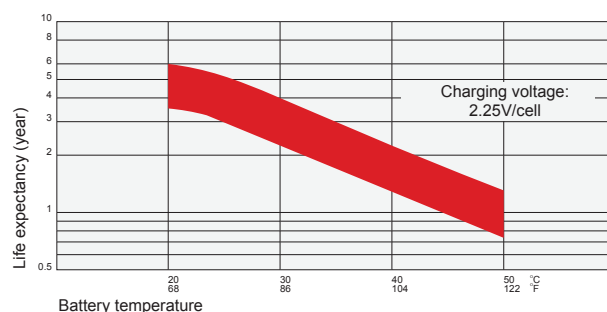
Float Charging Characteristics



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.sigmatek.com
order@sigmatek.com