

Specifications

Nominal Voltage	12V	
Nominal Capacity (10HR)	250AH	
Dimension	Length	522mm (20.55 inches)
	Width	268mm (10.55 inches)
	Height	220mm (8.66 inches)
	Total Height (with Terminal)	226mm (8.90 inches)
	Approximate Weight	73.0 kg (161.0 lbs)
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	IT	
Rated Capacity	260.0AH	(20hr, 1.80V/cell, 25°C/77°F)
	250.0AH	(10hr, 1.80V/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	
Internal Resistance	2.5mΩ	
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. (V/cell) \ Discharge Time	10min	15min	30min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	\	458.4	270.1	152.5	93.9	71.9	46.9	40.0	31.0	26.3	13.6
1.65V	\	428.6	255.8	147.3	90.8	69.7	45.4	39.1	30.7	26.0	13.5
1.70V	\	403.1	242.5	142.5	88.4	66.9	44.2	38.3	30.2	25.5	13.4
1.75V	472.3	377.6	233.0	138.1	85.0	65.1	43.0	37.5	29.8	25.3	13.1
1.80V	429.8	345.7	224.4	132.0	81.9	63.9	42.0	36.5	29.3	25.0	13.0
1.85V	336.4	286.1	190.2	117.9	75.1	59.4	39.1	34.0	27.6	23.6	12.9

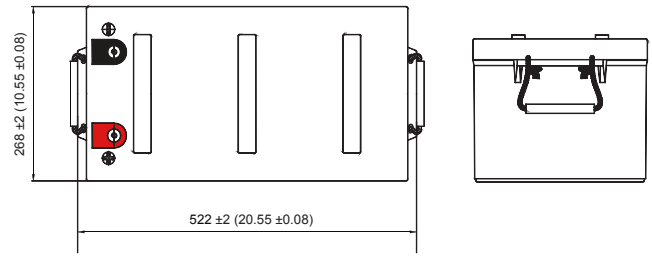
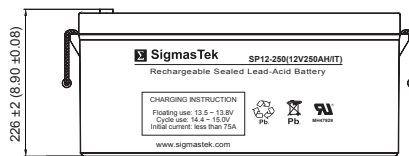
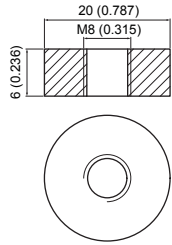
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	10min	15min	30min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	\	802.1	492.3	286.7	178.1	137.2	90.4	77.4	60.5	51.7	26.8
1.65V	\	762.6	469.6	278.3	173.2	133.7	87.8	76.0	60.1	51.2	26.7
1.70V	\	722.7	448.8	271.2	169.4	128.9	85.7	74.6	59.3	50.3	26.4
1.75V	848.3	686.5	433.6	263.8	163.3	125.6	83.8	73.2	58.5	49.8	25.9
1.80V	784.6	636.3	421.2	253.3	158.0	123.8	81.9	71.5	57.7	49.4	25.7
1.85V	621.4	533.8	362.5	227.3	145.8	115.7	76.6	66.9	54.5	46.7	25.5

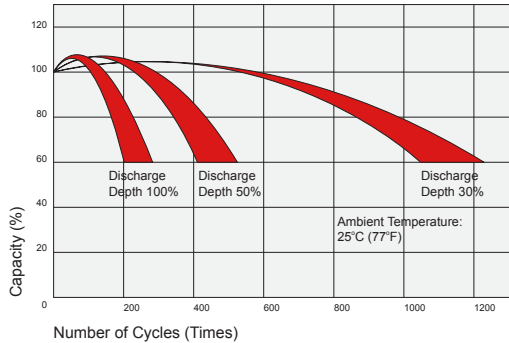
Dimensions

IT Terminal

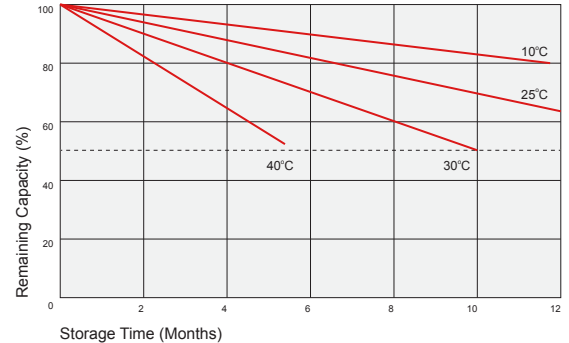
Unit: mm (inches)



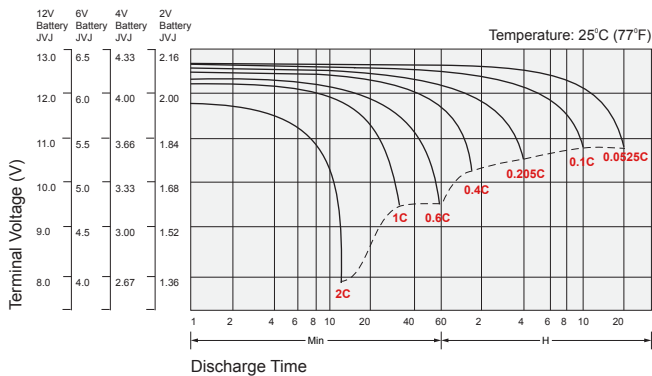
Cycle Service Life



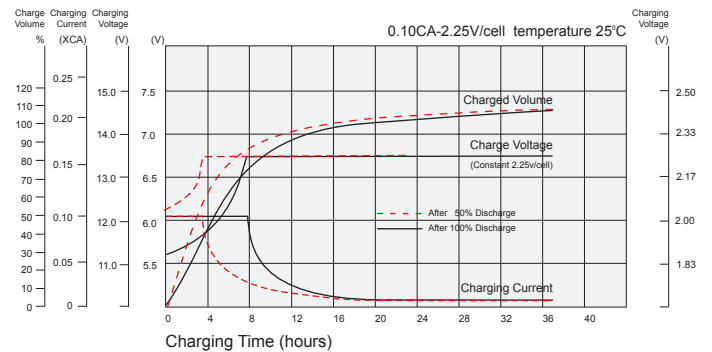
Self Discharge Characteristics



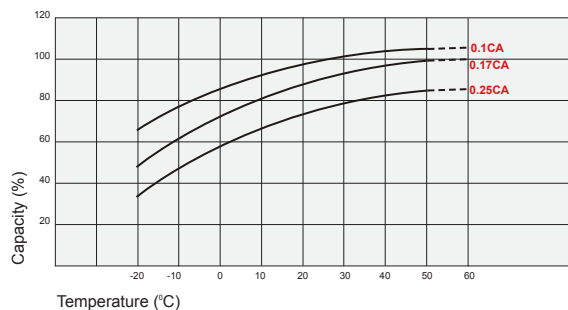
Discharge Characteristics



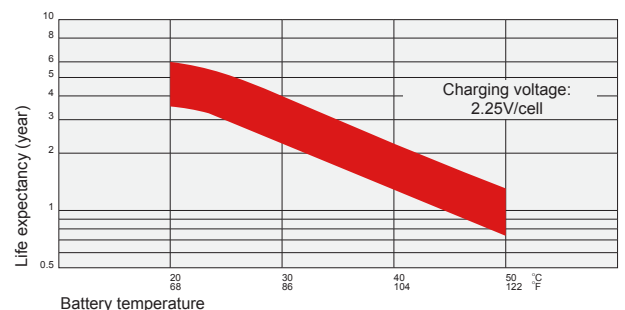
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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