

Specifications

Nominal Voltage	6V	
Nominal Capacity (20HR)	20AH	
Dimension	Length	157 mm (6.18 inches)
	Width	83 mm (3.27 inches)
	Height	125 mm (4.92 inches)
	Total Height (with Terminal)	125 mm (4.92 inches)
Approximate Weight	3.21 kg (7.08 lbs)	
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	NB	
Rated Capacity	20.2AH	(20hr, 1.75V/cell, 25°C/77°F)
	19.1AH	(10hr, 1.75V/cell, 25°C/77°F)
	17.0AH	(5hr, 1.75V/cell, 25°C/77°F)
	16.9AH	(3hr, 1.60V/cell, 25°C/77°F)
	12.6AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	300A	
Internal Resistance	9mΩ	
Operating Temp. Range	Discharge:	-20°C (-4°F)~50°C (5~122°F)
	Charge:	-20°C (-4°F)~50°C (5~122°F)
	Storage:	-20°C (-4°F)~40°C (5~104°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	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V		77.2	52.4	38.8	23.0	12.6	7.30	5.63	3.70	2.42	2.01	1.05
1.65V		70.0	48.3	36.3	21.8	12.4	7.00	5.47	3.58	2.40	1.99	1.04
1.70V		63.5	44.8	34.1	20.7	12.2	6.90	5.24	3.49	2.36	1.95	1.03
1.75V		57.6	41.1	32.0	19.8	11.8	6.73	5.10	3.40	2.33	1.91	1.01
1.80V		51.1	37.4	29.3	19.1	11.3	6.49	5.01	3.31	2.29	1.86	1.00
1.85V		38.1	29.2	24.2	16.2	10.1	5.95	4.65	3.09	2.16	1.80	0.99

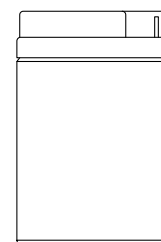
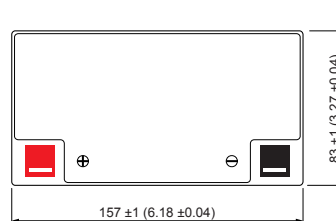
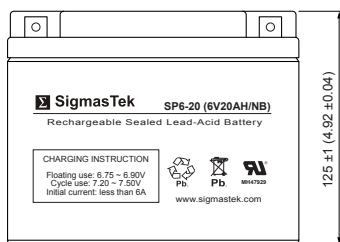
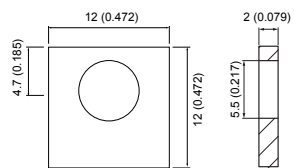
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell)	Discharge Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V		128.0	89.1	67.9	41.9	23.6	13.9	10.8	7.13	4.73	3.95	2.06
1.65V		118.8	84.0	64.6	40.0	23.5	13.3	10.5	6.93	4.70	3.91	2.05
1.70V		109.3	78.6	61.2	38.2	23.1	13.2	10.1	6.77	4.64	3.84	2.03
1.75V		102.0	73.8	58.1	36.9	22.5	12.9	9.85	6.61	4.58	3.77	2.00
1.80V		92.5	68.2	53.9	35.9	21.6	12.5	9.71	6.46	4.51	3.68	1.98
1.85V		69.6	54.0	45.2	30.9	19.4	11.6	9.07	6.05	4.26	3.57	1.96

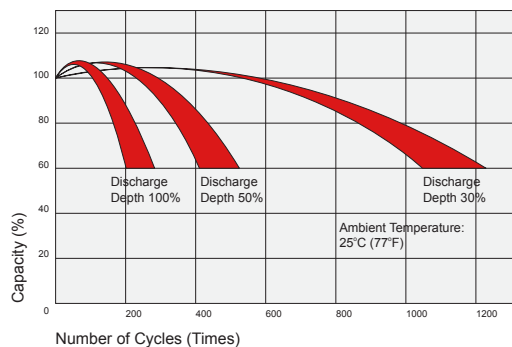
Dimensions

NB Terminal

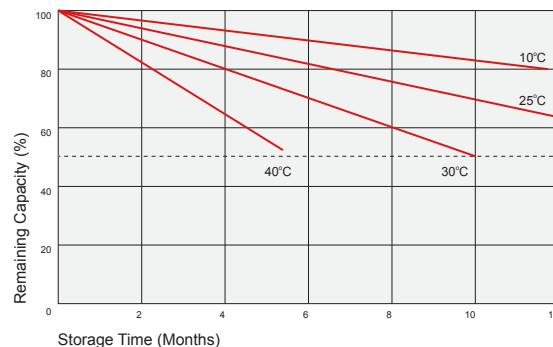
Unit: mm (inches)



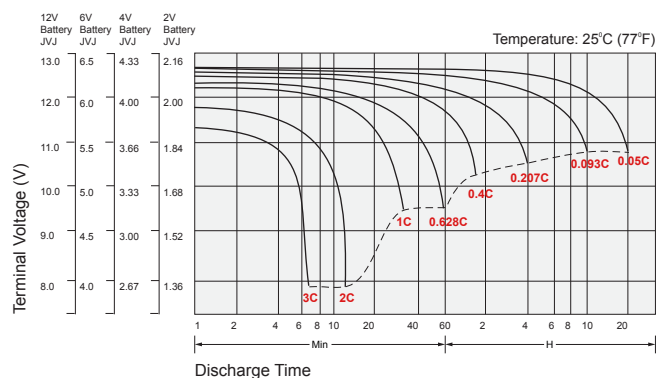
Cycle Service Life



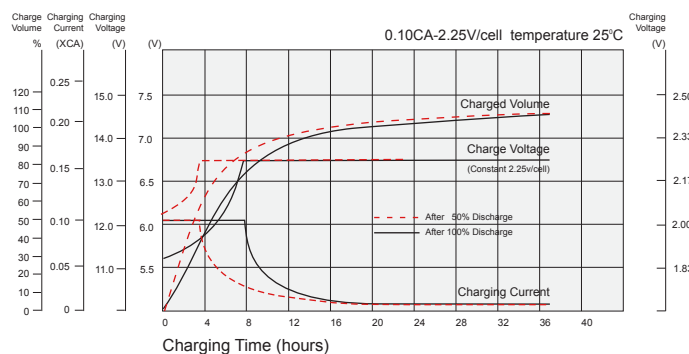
Self Discharge Characteristics



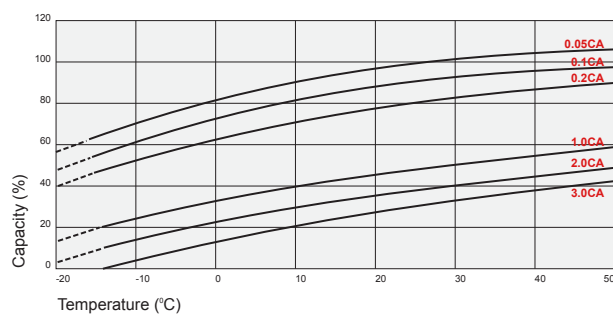
Discharge Characteristics



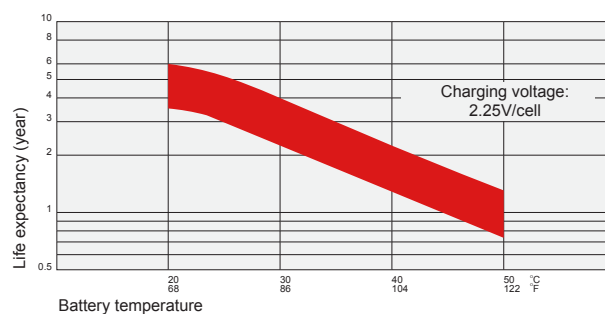
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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