

Specifications

Nominal Voltage	12V	
Nominal Capacity (20HR)	98AH	
Dimension	Length	330mm (12.99 inches)
	Width	173mm (6.81 inches)
	Height	212mm (8.35 inches)
	Total Height (with Terminal)	218mm (8.58 inches)
	Approximate Weight	31 kg (68.4 lbs)
Battery Type	Valve Regulated Lead-Acid Battery, Gel Design	
Terminal Type	IT	
Rated Capacity	98.0AH	(20hr, 1.75V/cell, 25°C/77°F)
	90.0AH	(10hr, 1.75V/cell, 25°C/77°F)
	80.0AH	(5hr, 1.75V/cell, 25°C/77°F)
	77.7AH	(3hr, 1.60V/cell, 25°C/77°F)
	58.4AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1000A	
Internal Resistance	5.9mΩ	
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 SPG series batteries may be stored for up to 9 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	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.60V	132.3	97.2	71.3	58.4	34.9	25.9	20.7	17.4	14.4	12.6	11.3	10.3	9.53	5.08
1.67V	122.1	90.8	66.4	55.0	33.6	24.9	20.0	16.8	14.0	12.3	11.1	10.1	9.34	5.01
1.70V	117.3	87.4	64.1	53.0	32.7	24.2	19.5	16.5	13.8	12.2	10.9	10.0	9.23	4.96
1.75V	108.9	81.6	60.4	50.1	30.9	23.2	18.9	16.0	13.3	11.8	10.6	9.70	9.00	4.90
1.80V	96.90	74.2	55.9	46.8	29.1	22.0	18.0	15.4	12.9	11.4	10.3	9.42	8.85	4.80
1.85V	84.60	66.4	50.7	42.4	26.9	20.5	17.0	14.7	12.3	10.9	9.80	8.96	8.47	4.61

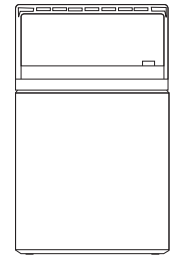
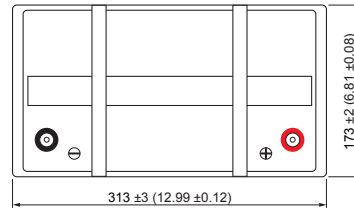
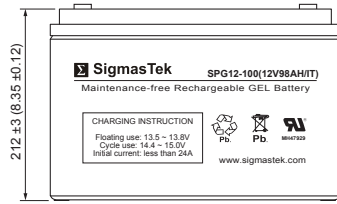
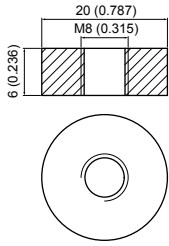
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.60V	239.1	178.7	133.4	110.7	66.7	49.9	40.1	33.8	28.1	24.7	22.2	20.3	18.9	10.1
1.67V	223.1	168.5	125.1	104.8	64.4	48.2	38.7	32.8	27.5	24.3	21.9	20.0	18.5	9.95
1.70V	216.8	163.9	121.7	101.6	63.1	46.9	37.9	32.3	27.1	24.0	21.6	19.7	18.3	9.86
1.75V	203.4	154.4	115.4	96.50	59.8	45.2	36.8	31.4	26.3	23.3	21.0	19.3	17.9	9.75
1.80V	183.0	141.6	107.5	90.70	56.6	42.9	35.3	30.3	25.4	22.5	20.4	18.7	17.6	9.57
1.85V	161.9	128.0	98.20	82.60	52.6	40.2	33.4	28.9	24.3	21.6	19.5	17.8	16.9	9.20

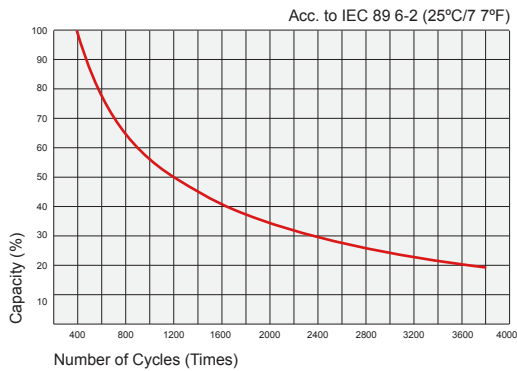
Dimensions

IT Terminal

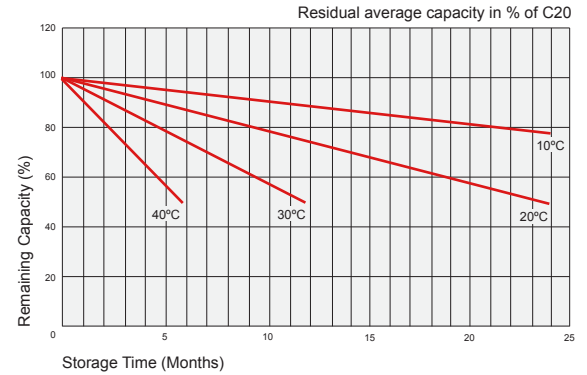
Unit: mm (inches)



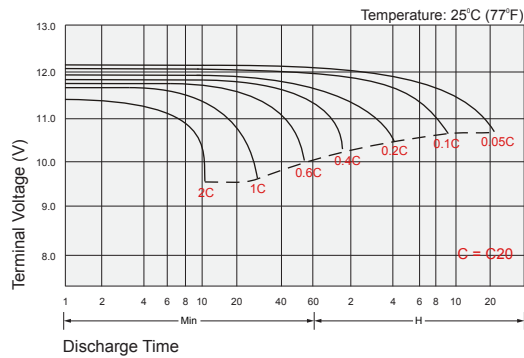
Cycle Service Life



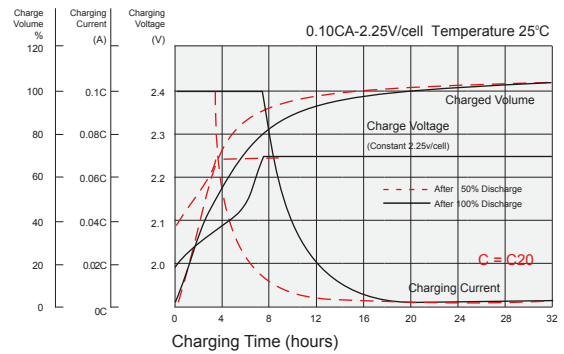
Self Discharge Characteristics



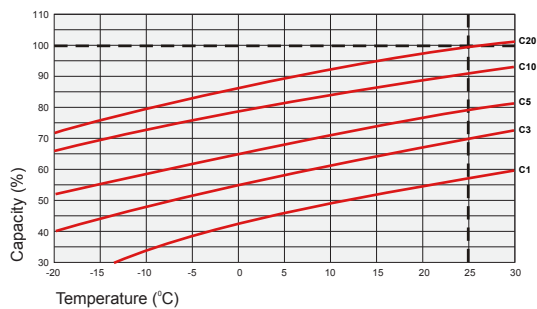
Discharge Characteristics



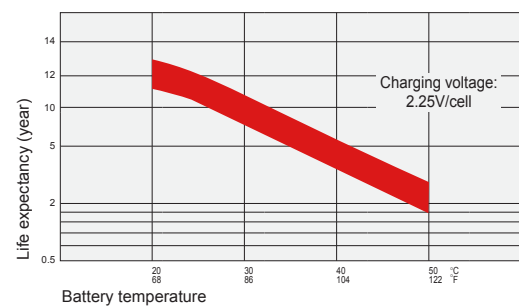
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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