

Specifications

Nominal Voltage	12V	
Nominal Capacity (20HR)	61AH	
Dimension	Length	259mm (10.2 inches)
	Width	174mm (6.85 inches)
	Height	173mm (6.81 inches)
	Total Height (with Terminal)	179mm (7.05 inches)
Approximate Weight	19.5 kg (43.0 lbs)	
Battery Type	Valve Regulated Lead-Acid Battery, Gel Design	
Terminal Type	IT	
Rated Capacity	61.2AH	(20hr, 1.75V/cell, 25°C/77°F)
	55.8AH	(10hr, 1.75V/cell, 25°C/77°F)
	47.2AH	(5hr, 1.75V/cell, 25°C/77°F)
	44.7AH	(3hr, 1.60V/cell, 25°C/77°F)
	33.1AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	600A	
Internal Resistance	8.8mΩ	
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	8h	10h	20h
1.60V		73.3	55.3	41.0	33.1	19.8	14.9	12.1	10.1	6.98	5.89	3.17
1.67V		69.5	52.8	39.8	32.2	19.3	14.6	11.8	9.92	6.86	5.78	3.13
1.70V		65.7	50.5	38.5	31.1	18.7	14.2	11.5	9.68	6.75	5.71	3.10
1.75V		61.4	47.4	36.2	29.5	17.9	13.7	11.1	9.44	6.56	5.58	3.06
1.80V		55.1	43.2	33.5	27.5	17.1	13.2	10.8	9.20	6.35	5.47	3.00
1.85V		49.0	38.9	30.4	25.5	15.9	12.2	10.2	8.71	6.13	5.24	2.88

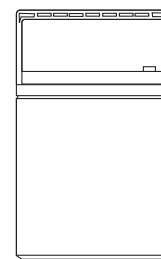
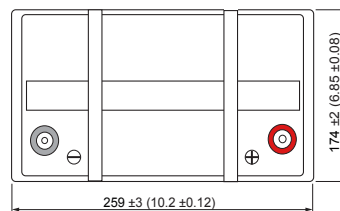
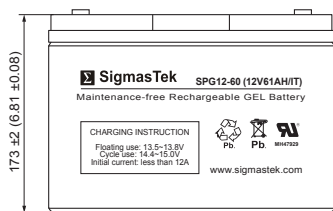
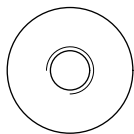
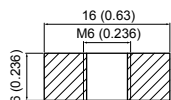
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell)	Discharge Time	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V		132.4	101.7	76.7	62.8	37.9	28.7	23.4	19.7	13.7	11.7	6.30
1.67V		126.9	98.0	75.1	61.3	37.0	28.2	22.9	19.4	13.5	11.5	6.22
1.70V		121.4	94.7	73.0	59.6	36.1	27.5	22.4	18.9	13.3	11.3	6.16
1.75V		114.9	89.7	69.3	56.8	34.7	26.7	21.8	18.5	13.0	11.1	6.09
1.80V		104.2	82.5	64.5	53.3	33.3	25.7	21.2	18.1	12.6	10.9	5.98
1.85V		93.50	74.7	58.8	49.5	31.0	23.9	20.1	17.2	12.2	10.4	5.75

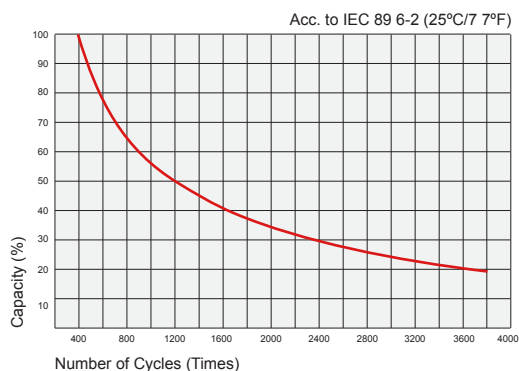
Dimensions

IT Terminal

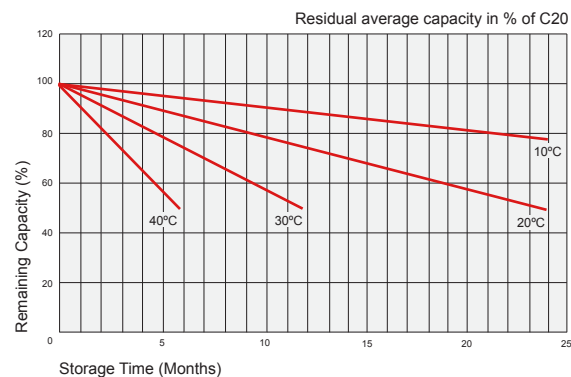
Unit: mm (inches)



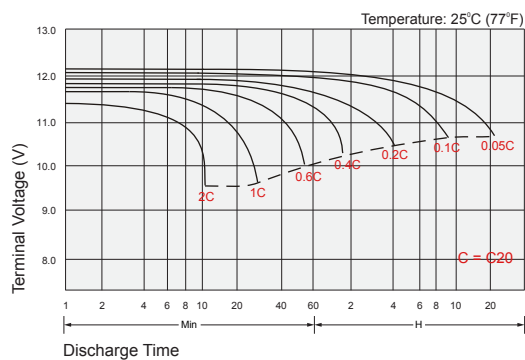
Cycle Service Life



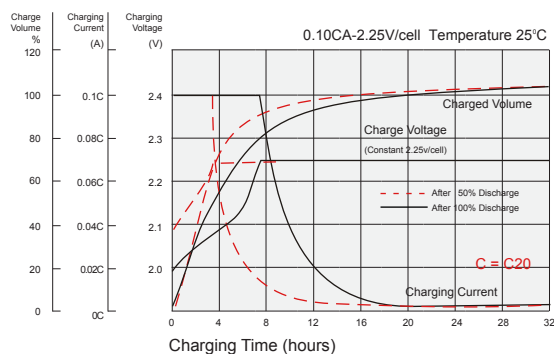
Self Discharge Characteristics



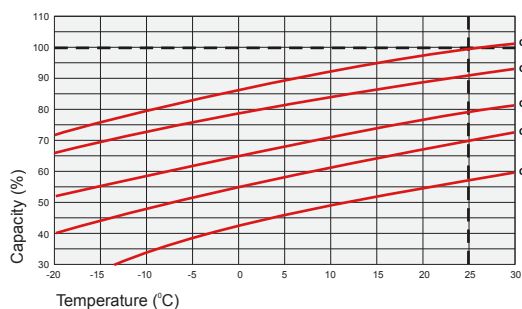
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life

