
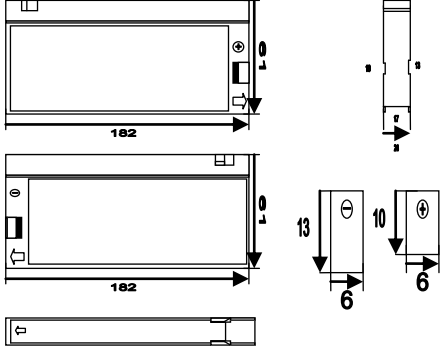


Sonikcell

Rechargeable Battery

SSLAB1223(12V2.3AH)

Specification		Product Picture	
Nominal Voltage	12V		
Nominal Capacity (20HR)	2.3AH		
Product Series	Standby--S		
Dimensions	Length		182±2mm (7.16inches)
	Width		24±2mm (0.94inches)
	Container Height		61±3mm (2.40inches)
	Total Height(with Terminal)		61±1mm (2.40inches)
Approx Weight	0.71 kg/ 1.562 lbs		
Terminal	W2		
Rated Capacity	2.3AH/0.115A		(20HR,10.80V,25°C/77°F)
	2.2AH/0.22A	(10HR,10.80V,25°C/77°F)	
	1.95AH/0.39A	(5HR,10.80V,25°C/77°F)	
	1.72AH/0.57A	(3HR,10.80V,25°C/77°F)	
	1.49AH/1.49A	(1HR,10.20V,25°C/77°F)	
Max.Discharge Current	20 A(5s)		
Internal Resistance	Approx 80mΩ		
Operating Temp.Range	Discharge:	-15~50°C(5~122°F)	
	Charge:	-0~40°C(32~104°F)	
	Storage:	-15~40°C(5~104°F)	
Nominal Operating Temp.Range	25±3°C(77±5°F)		
Cycle Use	Initial Charging Current less than 0.69A.Voltage 14.6V~14.9V at 25°C(77°F) Temp.Coefficient -5mV/°C		
Standby Use	Initial Charging Current less than 0.69A Voltage 13.6V~13.9V at 25°C(77°F) Temp.Coefficient -3mV/°C		
5Capacity affected by Temperature	40°C 104°F	103%	
	25°C 77°F	100%	
	0°C 32°F	80%	
Self Discharge	12V-2.3C batteries may be stored for up to 6 months at25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter		
Design Life	3 years		
		Outer Dimensions	
			
		Applications	
		<ul style="list-style-type: none"> ◆Tele-communication central station (wired or cellular) ◆Power system communication military communication,etc. ◆Uninterruptable Power System (UPS-for Telecom) ◆Electric tool ◆Solar Powered system ◆Medical equipmen 	

Discharge Constant Current (Amperes at 77°F/25°C)											
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
9.60V			4.6	2.7	1.9	1.5	0.8	0.58	0.41	0.22	0.12
9.90V			4.4	2.7	1.9	1.5	0.8	0.58	0.39	0.22	0.12
10.20V			4.2	2.6	1.9	1.5	0.8	0.58	0.39	0.21	0.12
10.50V			4.0	2.4	1.9	1.5	0.8	0.57	0.39	0.21	0.12
10.80V			3.7	2.1	1.8	1.4	0.8	0.56	0.39	0.21	0.11

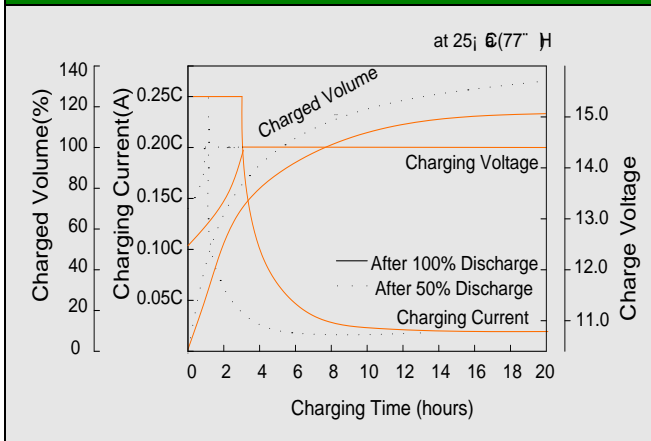
Constant Power Discharge (Watts at 77°F/25°C)											
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
9.60V			51.2	31.0	21.7	17.4	9.4	6.78	4.60	2.54	1.39
9.90V			48.4	30.0	21.4	17.2	9.3	6.78	4.60	2.54	1.39
10.20V			46.2	28.6	21.1	17.2	9.2	6.71	4.54	2.54	1.39
10.50V			43.7	26.8	20.9	16.8	9.1	6.65	4.54	2.48	1.33
10.80V			41.0	23.2	20.6	16.5	8.8	6.41	4.54	2.48	1.33

SSLA12V2.3AH

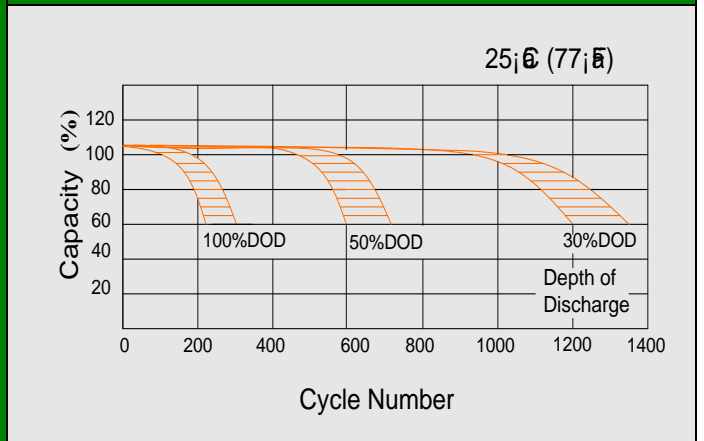
Battery Construction

COMPONENT	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
RAW MATERIAL	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

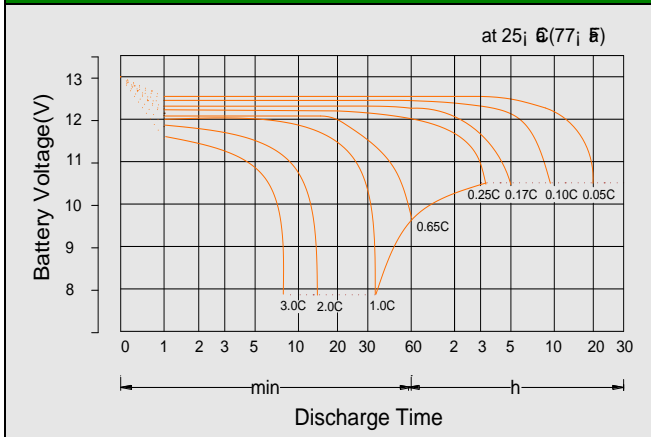
Charging characteristics



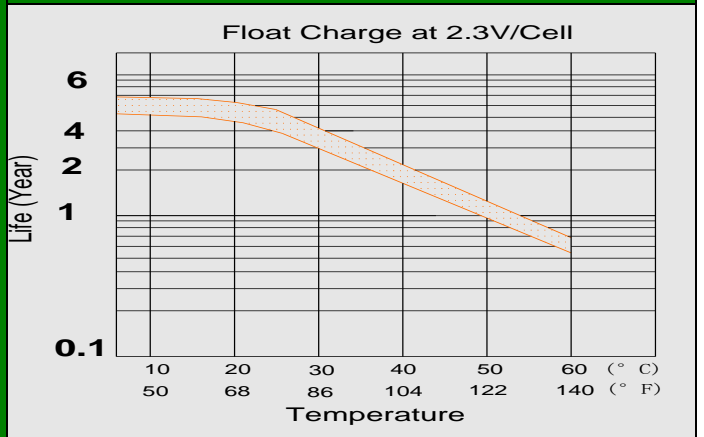
Cycle Life in Relation to Depth of Discharge



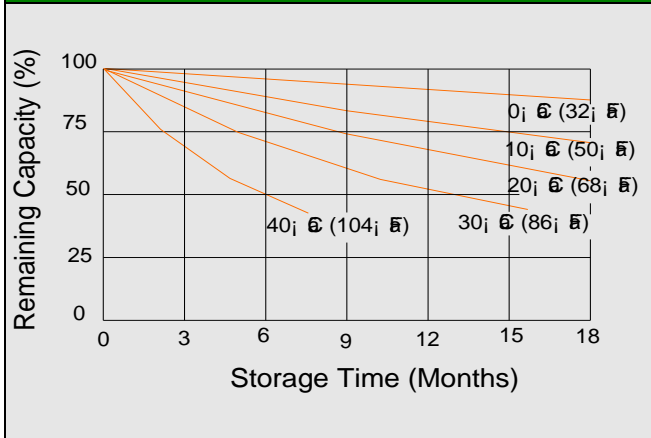
Discharge characteristics



Effect of Temperature on Long Term Float Life



Storage characteristics



Float charge Life

