

**SILICON BATTERY****Applications**

- Solar system and Wind system
- Solar street light and solar garden light
- Emergency lighting equipment
- Fire alarm and security systems
- Telecommunication equipment
- Electric equipment and telemeter equipment

Battery Model	12V90Ah			
Capacity (25°C)	10Hr(9A,1.80V)	5Hr (16.4A,1.80V)	3Hr(24.9A,1.80V)	1Hr(59.9A,1.80V)
	90Ah	82Ah	74.7Ah	59.9Ah
Dimensions	Length	Width	Height	Total Height
	331mm	172mm	215mm	220mm
Approx Weight	27KG			
Self Discharge	≤2% per month (25°C)			
Charge Voltage 25°C	Cycle Use		Float Use	
	2.36V(-3.5mV/°C),max charge current:15A		2.25V(-3.5mV/°C)	

General Features

- Wide operating temperature range from -45°C to 60°C
- Sealed and maintenance free operation
- Low self-discharge rate and long shelf life (12 months at 25°C)
- ABS containers and covers
- No memory effect, thick flat plate with high Tin low Calcium alloy
- Absorptive Glass Mat Technology (AGM System)
- Safety valve installation for explosion proof
- Long Service Life, Float or Cyclic





Discharge Parameter

Constant Current Discharge Data (25°C,A)

End Voltage (V/cell)	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h
1.65	279	185.9	145.6	128.3	92.0	61.4	36.7	26.9	18.4	16.1	12.7	10.5	5.54
1.70	273.7	179.0	139.3	122.8	89.5	59.9	35.9	26.4	18.0	15.7	12.6	10.4	5.47
1.75	250.6	167.0	133.0	117.2	87.0	58.1	34.9	25.9	17.7	15.4	12.4	10.3	5.41
1.80	236.4	157.5	126.6	115.6	84.4	56.1	34.2	25.3	17.3	15.2	12.2	10.1	5.34
1.85	217	130	86.6	76.3	86.6	53.2	31.5	22.8	15.2	14.2	10.3	8.73	4.73

Constant Power Discharge Data (25°C,W/cell)

End Voltage	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h
1.65	520.3	346.6	271.6	239.5	171.6	108	66.8	48.9	31.6	27.8	19.4	17.3	9.6
1.70	529.1	352.5	259.8	229.0	166.9	105	65.6	47.9	31.1	27.5	19.2	17.1	9.5
1.75	467.4	311.4	248.0	218.6	162.2	102	64.0	46.8	30.7	27.1	19.0	20.8	9.4
1.80	440.9	293.7	236.2	208.2	157.4	99.7	62.4	45.7	30.2	26.6	18.8	16.8	9.3
1.85	389	259.3	208.4	183.5	138.7	88.9	55.0	40.2	26.6	23.4	16.7	14.8	9.2

Performance Curve

