

**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	12V100Ah			
Capacity (25°C)	10Hr(5.4A,1.80V)	5Hr (10A,1.80V)	3Hr(27A,1.80V)	1Hr(55A,1.80V)
	105Ah	100Ah	81Ah	55Ah
Dimensions	Length	Width	Height	Total Height
	331mm	172mm	215mm	220mm
Approx Weight	29.20KG			
Self Discharge	≤2% per month (25°C)			
Charge Voltage 25°C	Cycle Use		Float Use	
	2.36V(-3.5mV/°C),max charge current:60A		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 (12months 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	281	212	174	150	107	61.4	36.7	26.9	18.4	16.1	12.7	10.5	5.54
1.70	269	201	164	142	104	59.9	35.9	26.4	18.0	15.7	12.6	10.4	5.47
1.75	252	189	157	134	99.3	58.1	34.9	25.9	17.7	15.4	12.4	10.3	5.41
1.80	228	180	149	128	95.0	56.1	34.2	25.3	17.3	15.2	12.2	10.1	5.34
1.85	194	158	134	117	89.3	54.5	33.5	24.8	16.9	14.9	12.0	9.90	5.23

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	480	371	309	264	199	117	73.9	56.6	36.2	32.5	26.4	21.4	12.5
1.70	464	352	305	259	193	115	72.5	55.5	36.1	32.1	26.0	21.1	12.3
1.75	442	338	293	249	186	111	71.3	54.4	36.0	31.7	25.6	20.8	12.1
1.80	417	321	280	238	178	108	69.8	53.6	35.4	31.2	25.2	20.5	12.0
1.85	362	292	260	223	169	105	67.3	51.8	34.6	30.5	24.7	20.1	11.9

Performance Curve

