

**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	2V500Ah			
Capacity (25°C)	10Hr(50A,1.80V)	5Hr( 87 A,1.80V)	3Hr( 128 A,1.80V)	1Hr(280A,1.80V)
	500Ah	437Ah	384 Ah	280Ah
Dimensions	Length	Width	Height	Total Height
	242mm	173mm	330mm	337mm
Approx Weight	32 KG			
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 (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	680	620	576	520	404	250	150	110	76	68	53.2	45	22.6
1.70	640	590	520	454	380	246	147.4	108.8	74.2	64.4	51.6	42.6	22.2
1.75	600	558	496	438	368	242	144.6	107.2	72.8	63.4	50.6	41.8	22
1.80	560	530	458	404	340	224	138.8	102.4	70	61	48.6	40	21.6
1.85	480	458	418	378	318	216	130.6	96	65.8	57.2	45.6	37.8	20.4

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	1188	1102	1036	942	738	464	280	208	144	100.2	80	68	33.8
1.70	1138	1068	950	836	702	460	278	208	142	97.2	77	63.8	33.4
1.75	1094	1030	924	820	692	458	206	206	140	93.8	74.4	61.4	33
1.80	1046	996	868	766	650	428	198	198	136	90.4	71.6	60	32.2
1.85	916	878	804	732	618	422	188	188	130	85.8	68.2	56.6	30.6

**Performance Curve**

