



SB Series-Battery

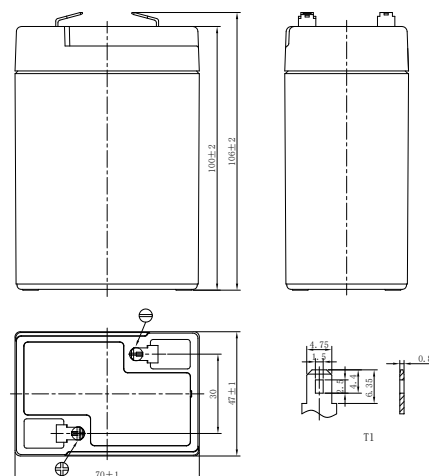
6SB40(6V4 Ah)

Specifications of 6SB4

Rated Voltage		6V	
Nominal Capacity (20HR)		4Ah	
Dimension	Length	70±2mm (2.76 inches)	
	Width	47±2mm(1.85 inches)	
	Container Height	100±2mm (3.94inches)	
	Total Height	106±2mm (4.17 inches)	
Approx Weight		0.65kg (1.43lbs)	
Terminal		T1/T2	
Container Material		ABS	
Rated Capacity	4.0 Ah	(2.00A, 20hr, 1.80V/cell, 25°C/77°F)	
	3.67 Ah	(0.36A, 10hr, 1.80V/cell, 25°C/77°F)	
	3.35 Ah	(0.67A, 5hr, 1.75V/cell, 25°C/77°F)	
	3.03 Ah	(1.01A, 3hr, 1.75V/cell, 25°C/77°F)	
	2.33 Ah	(2.33A, 1hr, 1.60V/cell, 25°C/77°F)	
Max. Discharge Current		112A (5s)	
Internal Resistance(25°C)		Approx 30mΩ	
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)	
Standby Use	No limit on Initial Charging Current Voltage		
	6.75V~6.90V 25°C(77°F)Temp. Coefficient -20mV/°C		
Cycle Use	Initial Charging Current less than 12.0A.Voltage		
	7.20V~7.50V 25°C(77°F)Temp. Coefficient -30mV/°C		
Effect of temp. to Capacity			103%
	40°C (104°F)	25°C (77°F)	100%
	0°C (32°F)		86%
Self Discharge	Marstech series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required.		
	For higher temperatures the time interval will be shorter		



Layout



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	9.60	7.09	5.63	4.66	3.46	2.62	2.14	1.63	1.36	0.978	0.778	0.662	0.566	0.445	0.363	0.195
1.80V/cell	10.5	7.45	5.85	4.80	3.55	2.67	2.18	1.65	1.38	0.993	0.789	0.671	0.574	0.450	0.367	0.198
1.75V/cell	11.3	7.81	6.06	4.94	3.64	2.72	2.22	1.68	1.40	1.01	0.799	0.679	0.581	0.456	0.372	0.200
1.70V/cell	12.1	8.18	6.27	5.09	3.72	2.77	2.26	1.71	1.43	1.02	0.811	0.688	0.589	0.461	0.376	0.202
1.67V/cell	12.6	8.40	6.41	5.18	3.77	2.81	2.28	1.73	1.44	1.03	0.817	0.694	0.593	0.465	0.379	0.203
1.60V/cell	13.8	8.91	6.70	5.38	3.88	2.88	2.33	1.76	1.47	1.05	0.833	0.706	0.603	0.472	0.385	0.206

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.3	13.6	10.8	8.96	6.70	5.07	4.16	3.18	2.66	1.92	1.53	1.31	1.12	0.880	0.721	0.391
1.80V/cell	19.7	14.2	11.2	9.20	6.83	5.16	4.22	3.22	2.70	1.95	1.55	1.32	1.13	0.890	0.730	0.395
1.75V/cell	21.2	14.8	11.5	9.40	6.97	5.24	4.28	3.26	2.73	1.97	1.57	1.34	1.15	0.900	0.738	0.399
1.70V/cell	22.6	15.4	11.9	9.70	7.09	5.32	4.34	3.31	2.77	2.00	1.59	1.35	1.16	0.910	0.746	0.403
1.67V/cell	23.5	15.8	12.1	9.80	7.17	5.37	4.38	3.33	2.79	2.01	1.60	1.36	1.17	0.920	0.751	0.406
1.60V/cell	25.3	16.6	12.5	10.1	7.35	5.48	4.46	3.39	2.84	2.04	1.63	1.38	1.18	0.930	0.762	0.411



SB Series-Battery 6SB40(6V4 Ah)

Applications

- Telecommunications
- UPS system
- Wind power system
- Engine starting
- Wheelchair, Floor cleaning machines, Golf trolley, Boats

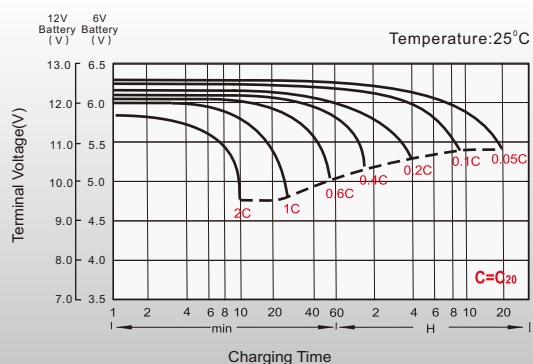
General Features

- Battery design life up to 5 years
- Special plate design guarantees battery floating life more than 1800 times
- High thermal capacity reduce the risk of thermal out of control and drying hard, and the battery can be used in bad environment
- Little water losing, and no electrolyte stratification phenomenon

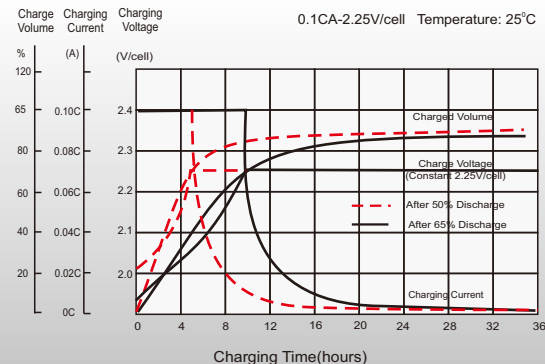
Standards

- IEC 60896 Certified
- Classified as "Long Life"
- ISO 9001 Certified
- Manufactured in standard IATF16949,

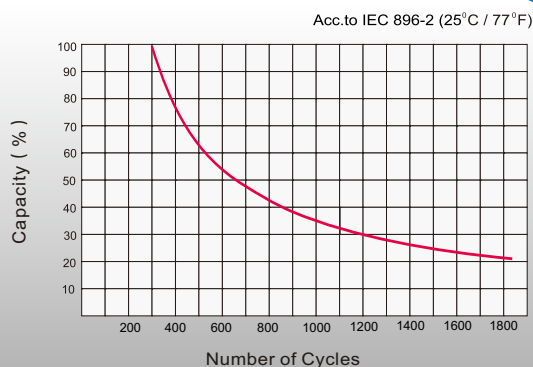
Discharge Characteristics



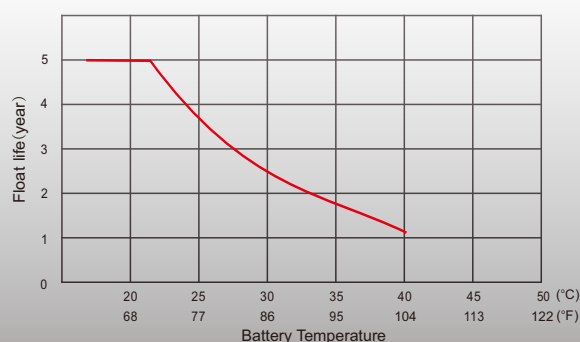
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Float Service Life



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