



Marstech

SB Series-Battery

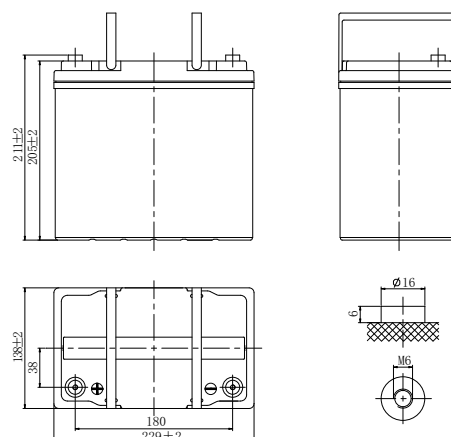
12SB55(12V55Ah)

Specifications of 12SB55

Rated Voltage	12V	
Nominal Capacity (10HR)	55Ah	
Dimension	Length	229±3mm (9.02 inches)
	Width	138±2mm(5.43 inches)
	Container Height	205±3mm (8.07 inches)
	Total Height	211±3mm (8.31 inches)
Approx Weight	16.5kg (36.4lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity	57.2 Ah	(2.86A, 20hr, 1.80V/cell, 25°C/77°F)
	55.0 Ah	(5.50A, 10hr, 1.80V/cell, 25°C/77°F)
	47.3 Ah	(9.46A, 5hr, 1.75V/cell, 25°C/77°F)
	42.9 Ah	(14.3A, 3hr, 1.75V/cell, 25°C/77°F)
	33.6 Ah	(33.6A, 1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	660A (5s)	
Internal Resistance(25°C)	Approx 7.5mΩ	
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	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Cycle Use	Initial Charging Current less than 16.5A.Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Effect of temp. to Capacity	103%	
	40°C (104°F)25°C (77°F)0°C (32°F)	
	100%	
Self Discharge	86%	
	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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	74.0	62.9	52.6	41.8	31.7	25.9	16.5	13.1	10.7	8.60	7.49	6.08	5.19	2.83
1.80V/cell	94.6	76.0	62.2	49.4	36.8	29.0	18.0	14.1	11.4	9.23	8.03	6.45	5.50	2.86
1.75V/cell	103.9	83.1	66.9	51.3	38.2	30.4	18.7	14.3	11.6	9.46	8.25	6.56	5.56	2.89
1.70V/cell	113.3	88.7	70.4	53.3	39.7	31.3	19.4	14.7	11.9	9.71	8.42	6.65	5.61	2.94
1.65V/cell	122.2	94.3	74.7	56.3	40.7	32.4	20.0	15.3	12.4	9.98	8.61	6.75	5.73	2.98
1.60V/cell	132.7	100.8	79.6	59.4	42.5	33.6	20.7	15.8	12.7	10.3	8.79	6.82	5.79	3.00

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	136.7	117.4	99.2	79.7	60.9	50.0	32.1	25.5	20.9	16.9	14.7	12.0	10.3	5.61
1.80V/cell	172.6	140.0	115.6	92.7	70.2	55.7	34.8	27.2	22.2	18.0	15.7	12.7	10.9	5.66
1.75V/cell	186.6	151.0	123.1	95.4	72.2	58.0	35.9	27.6	22.6	18.4	16.1	12.9	11.0	5.70
1.70V/cell	198.8	159.0	128.4	98.7	74.8	59.7	37.3	28.4	23.1	18.9	16.4	13.0	11.1	5.81
1.65V/cell	212.6	167.8	135.4	103.3	76.0	61.2	38.1	29.4	23.8	19.3	16.7	13.2	11.3	5.88
1.60V/cell	225.5	176.5	142.7	108.3	78.8	63.1	39.2	30.2	24.5	19.9	17.0	13.3	11.4	5.90



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12SB55(12V55Ah)

Applications

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

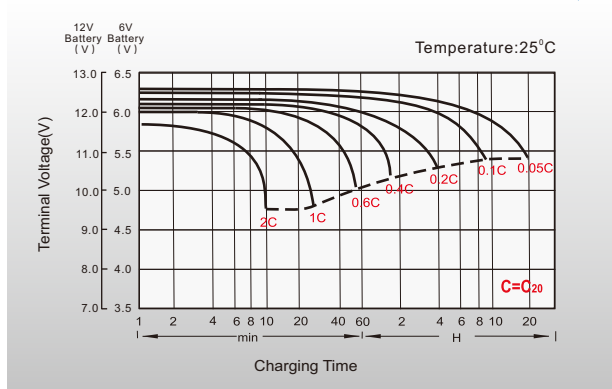
General Features

- Battery design life up to 10-12 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

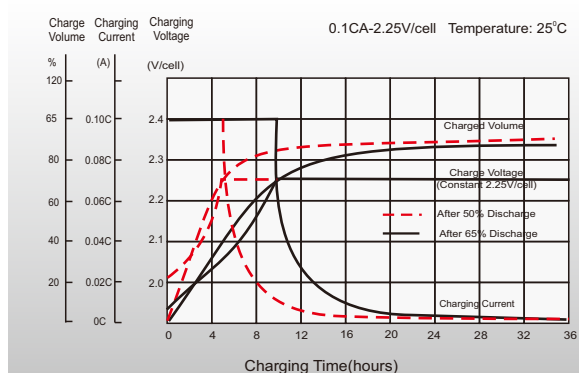
Standards

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

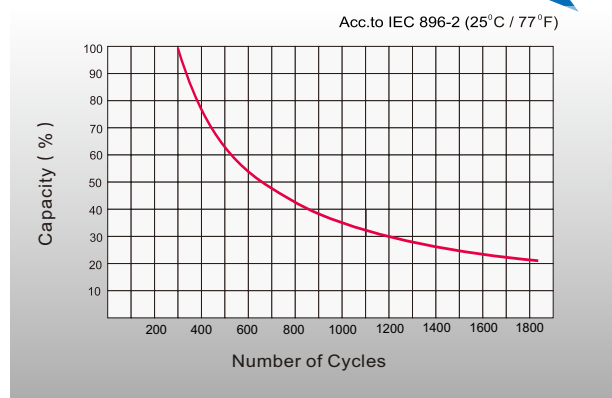
Discharge Characteristics



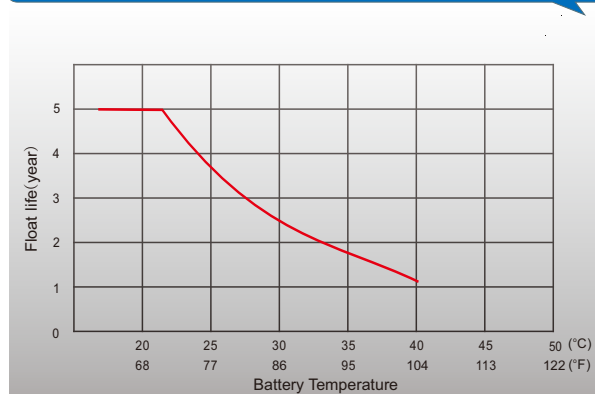
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Float Service Life



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