



Marstech

SB Series-Battery

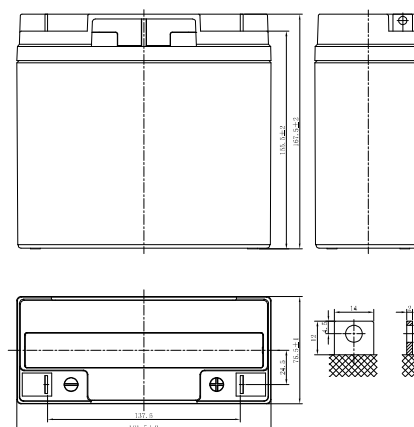
12SB18(12V18Ah)

Specifications of 12SB18

Rated Voltage		12	
Nominal Capacity (20HR)		18Ah	
Dimension	Length	181.5±1mm (7.14 inches)	
	Width	77±1mm(3.03 inches)	
	Container Height	167.5±1mm (6.59inches)	
	Total Height	167.5±1mm (6.59 inches)	
Approx Weight		5.50kg (12.13lbs)	
Terminal		T3/T12	
Container Material		ABS	
Rated Capacity	18.0 Ah	(0.9A, 20hr, 1.80V/cell, 25°C/77°F)	
	16.7 Ah	(1.67A, 10hr, 1.80V/cell, 25°C/77°F)	
	15.2 Ah	(3.04A, 5hr, 1.75V/cell, 25°C/77°F)	
	13.6 Ah	(4.55A, 3hr, 1.75V/cell, 25°C/77°F)	
	11.7 Ah	(11.7A, 1hr, 1.60V/cell, 25°C/77°F)	
Max. Discharge Current		270A (5s)	
Internal Resistance(25°C)		Approx 16mΩ	
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 3.6A.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%
	Marstech series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required.		86%
Self Discharge			
	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	26.0	22.7	19.9	15.6	11.6	9.36	5.56	4.17	3.39	2.87	2.49	1.98	1.63	0.89
1.80V/cell	30.8	26.5	22.7	17.2	12.7	10.1	5.97	4.39	3.54	2.98	2.57	2.03	1.67	0.90
1.75V/cell	33.8	28.4	24.1	18.1	13.3	10.6	6.18	4.55	3.64	3.04	2.62	2.07	1.70	0.91
1.70V/cell	36.8	30.3	25.4	18.9	13.8	10.9	6.34	4.67	3.73	3.11	2.68	2.10	1.72	0.92
1.65V/cell	39.2	32.2	26.6	19.8	14.3	11.3	6.51	4.75	3.79	3.17	2.72	2.12	1.74	0.93
1.60V/cell	41.7	34.1	28.0	20.5	14.9	11.7	6.69	4.86	3.87	3.22	2.76	2.15	1.76	0.94

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	49.8	43.8	38.7	30.5	22.9	18.5	11.1	8.33	6.79	5.77	5.01	3.99	3.31	1.81
1.80V/cell	58.5	50.9	43.9	33.5	24.9	20.0	11.8	8.74	7.08	5.97	5.16	4.10	3.38	1.82
1.75V/cell	63.7	54.3	46.4	35.1	26.0	20.9	12.2	9.02	7.24	6.07	5.25	4.15	3.41	1.83
1.70V/cell	68.9	57.5	48.7	36.6	26.9	21.5	12.5	9.24	7.40	6.20	5.34	4.20	3.45	1.84
1.65V/cell	72.8	60.7	50.8	38.1	27.8	22.2	12.8	9.39	7.51	6.30	5.41	4.24	3.48	1.86
1.60V/cell	77.0	63.9	53.2	39.4	28.8	22.9	13.1	9.57	7.65	6.38	5.47	4.28	3.51	1.87



SB Series-Battery 12SB18(12V18Ah)

Applications

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

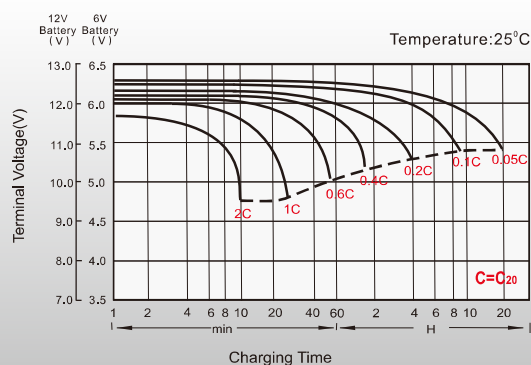
General Features

- 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

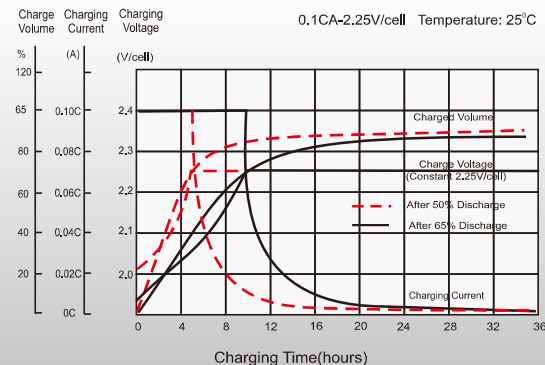
Standards

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

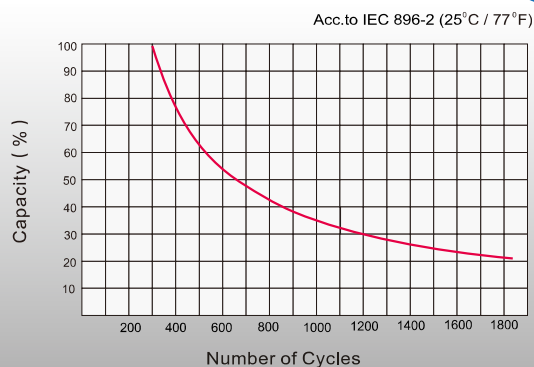
Discharge Characteristics



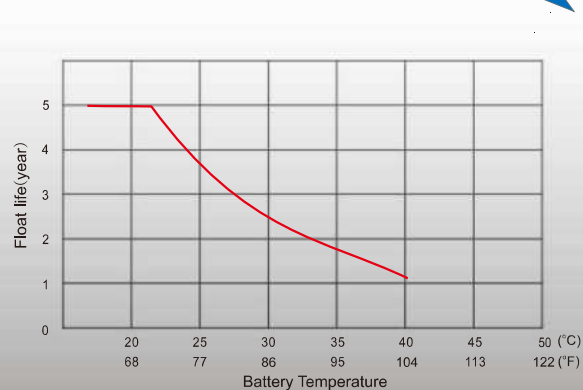
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Float Service Life



Sales Office

Head Office in MARSTECH SYSTEMS PTE LTD
Block 24, Sin Ming Lane #05-107 Midview City
Singapore

Manufacture in ANHUI LEOCH POWER SUPPLY CORP
No.1,Yingchun Road, Suixi Economic Decelopment Zone,
Suixi Country, Huaibei City, Anhui Province.
P.R.China

Manufacture in LEOCH ACCUPOWER (M) SDN BHD
Lot 13338 & 2493, Jalan Sukeppi, Kawasan Peridusatrain,
Jenjarom 42600 Kuala Langat, Selangor Darul Ehsan.
Malaysia