



MU series MU-1000



Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

General Design for Standby Power Applications

【Design Life】

Up to 20 Years in Standby Service at 25°C
Eurobat (20°C) : >12 YEARS VERY LONG LIFE

【Operating Temperature Range】

Nominal Operating Temperature : 25°C (77°F)
Discharge : -15°C ~ 50°C (5°F~122°F)
Charge: -15°C ~ 40°C (5°F~104°F)
Storage: -15°C ~ 40°C (5°F~104°F)

【Float Charging Voltage】

2.21 ~ 2.25 VDC/Unit at 25°C (77°F)

【Equalization Charging Voltage】

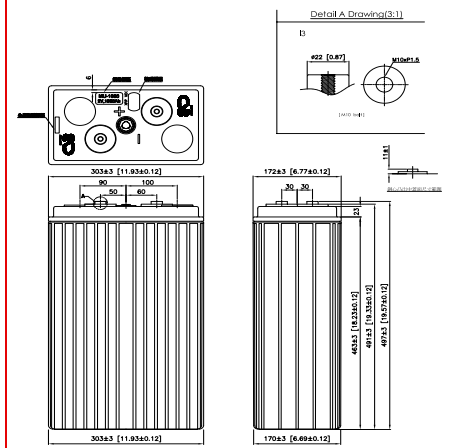
2.35 VDC/Unit at 25°C (77°F)

【Self Discharge】

Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F);
Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).

Specification

Nominal Voltage	2V (single cell per unit)		
Nominal Capacity	1000 Ah @10hr-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 54.50 Kg (120.12 lbs)		
Maximum Discharge Current	3000 A (5sec)		
Internal Resistance	--		
Short Circuit Current	--		
Maximum Charge Current	300 A		
Terminal types	I3 thread copper alloy terminal to accept M10 bolt		
Terminal tightening torque	249±50 Kg·cm / 216±43 Lbf·in / 24.4±4.9 N·m		
Container Material	Flame Retardant Polypropylene (UL 94-V0)		
Dimensions	Length (L)	303.0±3.0 mm	11.93±0.12 inch
	Width (W)	172.0±3.0 mm	6.77±0.12 inch
	Depth (D)	497.0±3.0 mm	19.57±0.12 inch



Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	30MIN	60MIN	90MIN	2HR	2.5HR	3HR	5HR	6HR	8HR	10HR	20HR	24HR
1.60V	--	566	427	348	290	250	170	148	116	104	55.5	46.3
1.67V	--	535	410	339	285	248	169	147	115	103	55.1	45.9
1.70V	--	513	398	332	282	247	168	146	114	102	54.8	45.7
1.75V	--	457	371	316	272	241	166	145	113	101	54.0	45.0
1.80V	--	398	339	293	257	231	160	140	111	100	52.6	43.8
1.83V	--	357	316	275	244	221	154	134	107	97.3	51.2	42.6

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	30MIN	60MIN	90MIN	2HR	2.5HR	3HR	5HR	6HR	8HR	10HR	20HR	24HR
1.60V	--	1013	768	628	535	469	320	278	223	202	109	90.7
1.67V	--	964	736	610	525	465	318	276	222	201	108	90.4
1.70V	--	928	714	597	519	463	317	275	221	200	107	89.2
1.75V	--	831	664	567	501	453	312	272	218	199	106	88.3
1.80V	--	726	601	526	473	434	299	262	213	196	105	87.5
1.83V	--	651	555	495	449	414	287	253	207	192	104	86.5

**Preliminary spec sheet

Issued: 201023

Sales Offices

希世比能源科技股份有限公司
CSB Energy Technology Co., Ltd.

BUSINESS HEADQUARTERS

Tel: +886-2-2880-5600
Fax: +886-2-2888-3300

USA OFFICE

Tel: +1-817-244-7777 / 1-(800)3-CSB-USA (272872)
Fax: +1-817-244-4445

SHENZHEN OFFICE (CHINA)

Tel: +86-755-8831-6488/6775/6075
Fax: +86-755-8831-6548

EUROPE (EMEA) OFFICE

Tel: +31(0)180-418-140
Fax: +31(0)180-418-327

SHANGHAI OFFICE (CHINA)

Tel: +86-21-5046-1622/0833/0094
Fax: +86-21-5046-1046

Recognized under UL 1989,
and certified by ISO 9001, 14001, 45001, 50001.



TAIPEI OFFICE

Tel: +886-2-2880-5600
Fax: +866-2-2888-3300

BEIJING OFFICE (CHINA)

Tel: +86-10-6597-8065/8165/8265
Fax: +86-10-6597-8565