



MU Series

MU1000S Datasheet

2V VRLA-AGM



Valve Regulated Lead Acid (VRLA) Battery

Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for High-Capacity Float Service Standby Power Applications

Built in Accordance with IEC 60896-21/22:2004, UL1973 Listed (MH66728) and UL1989 Recognized (MH14533)

Certified by TUV NORD according to ISO 9001:2015



Specifications

Voltage (Vdc)	2
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	1016.00
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	1040.00
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	976.00
Max Charge Current (A)	300.00
Max Discharge Current (A)	6000 (5sec)
Short Circuit Current (A)	--
Internal Resistance	Approx. 0.31 mΩ
Terminal Type	13 thread copper alloy terminal to accept M10 bolt
Terminal Torque	249±50 Kgf·cm / 216±43 Lbf·in / 24.4±4.9 N·m
Container Material	Flame Retardant Polypropylene (UL 94-V0)
Weight (kg. / lb., Approx.)	62.50 / 137.75
Length (L) (mm / in)	303.0±3.0 / 11.93±0.12
Width (W) (mm / in)	172.0±3.0 / 6.77±0.12
Depth (D) (mm / in)	497.0±3.0 / 19.57±0.12
Design Life	Up to 20 Years in Standby Service at 25°C. Eurobat (20°C): >12 Years Very Long Life
Operating Temperature	Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F - 104°F)
Float Charging Voltage	2.21 ~ 2.25 Vdc/battery 25°C (77°F)
Eq. Charging Voltage	2.35 Vdc/battery 25°C (77°F)
Self-Discharge	Less than 10% after 90 days, can be stored up to 6 months and 10 months with equalization charge* at 25C (77F); Full recharging is required before usage, and charged sooner if stored at higher temperature than 25C (77F).



MU Series

MU1000S Datasheet

2V VRLA-AGM

Constant Current Discharge Characteristics Per Battery: Amperes (25°C, 77°F)

F.V/Time	30MIN	60MIN	90MIN	2HR	2.5HR	3HR	5HR	6HR	8HR	10HR	20HR	24HR
1.67V	1042	662	498	407	348	306	200	172	134	110	55.0	45.8
1.75V	901	602	459	377	322	283	188	162	127	104	52.0	43.3
1.80V	807	553	427	355	303	267	179	155	122	100	50.0	41.7

Constant Power Discharge Characteristics Per Battery: Watts (25°C, 77°F)

F.V/Time	30MIN	60MIN	90MIN	2HR	2.5HR	3HR	5HR	6HR	8HR	10HR	20HR	24HR
1.67V	1678	1152	872	724	621	548	364	315	247	204	102	85.0
1.75V	1541	1066	817	682	584	515	348	303	239	197	98.5	82.1
1.80V	1420	990	769	650	557	491	335	291	231	190	95.0	79.2

