



VRLA Rechargeable Battery

MSU-300 (MSU-300FR)

(2V, 300Ah)

FEATURES

- Sealed structure, no electrolyte leakage or spill.
- High performance alloy to secure corrosion-proof feature.
- Unique electrolyte system achieves maximum service life.
- Special paste formula promotes the good charging acceptance.
- Electrolyte with gel technology.
- 15 years design life floating charging.



APPLICATION

- UPS
- Central Office
- Telecom
- Energy Storage Systems




SPECIFICATIONS


Nominal Voltage	2V	
Nominal Capacity(25°C)	10 Hour Rate F.V.(1.80V/cell)	300 Ah
	3 Hour Rate F.V.(1.80V/cell)	225 Ah
	1 Hour Rate F.V.(1.75V/cell)	165 Ah
Approx. Weight	19.0Kg(41.9lbs.)	
Terminals	B6 (Fitting M8 bolt & nut) I3 is optional	
Max. Discharge Current	1350 A (5 sec.)	
Max. Charge Current	75 A	
Operating Temperature Range	Charge	0°C~40°C(32°F~104°F)
	Discharge	-20°C~50°C(-4°F~122°F)
	Storage	-20°C~40°C(-4°F~104°F)
Self Discharge	< 3% per month (25°C)	
Internal Resistance	≤ 1.0mΩ (Fully Charged)	
Container Material	ABS(UL94-HB, UL94-V0 is optional)	

ISO 9001



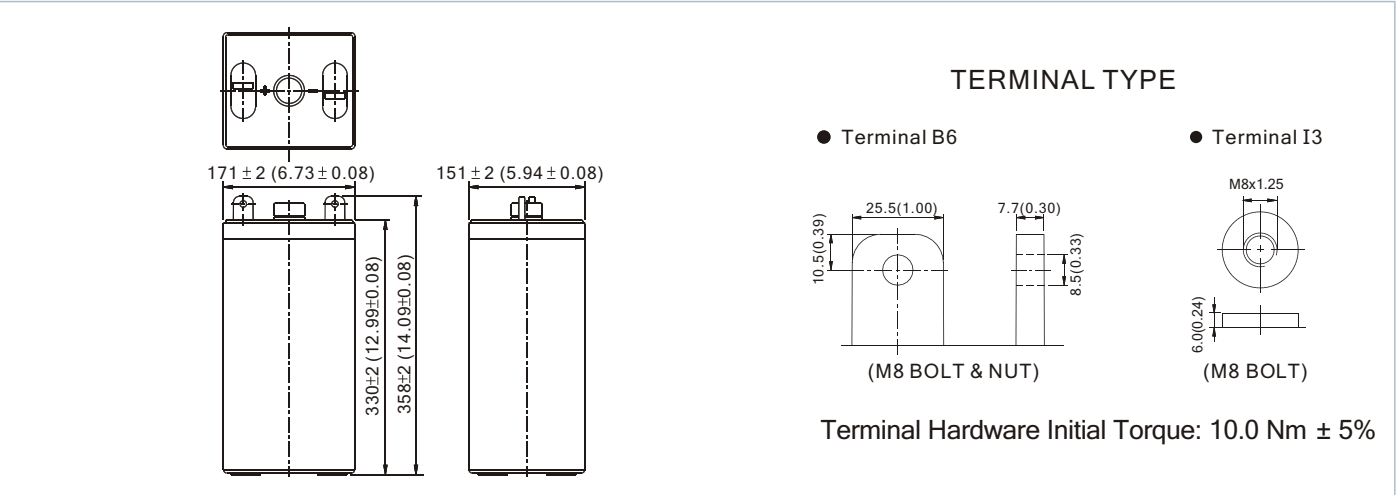
ISO 14001



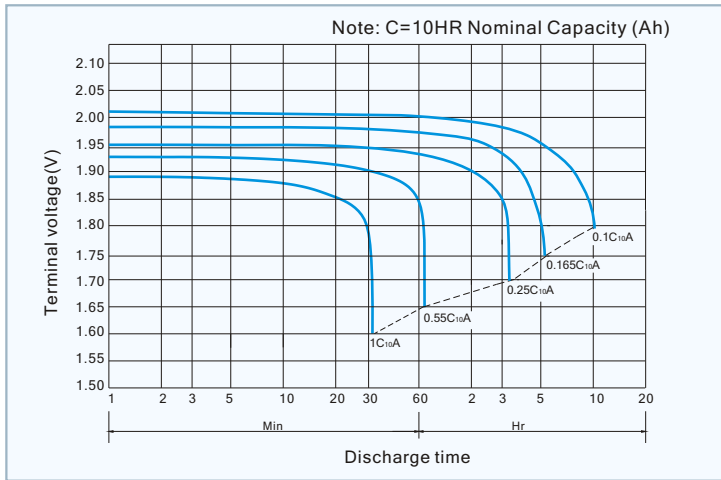
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- IEC60896-21/22
- JIS C 8704-2
- GB/T19638.2
- YD/T799

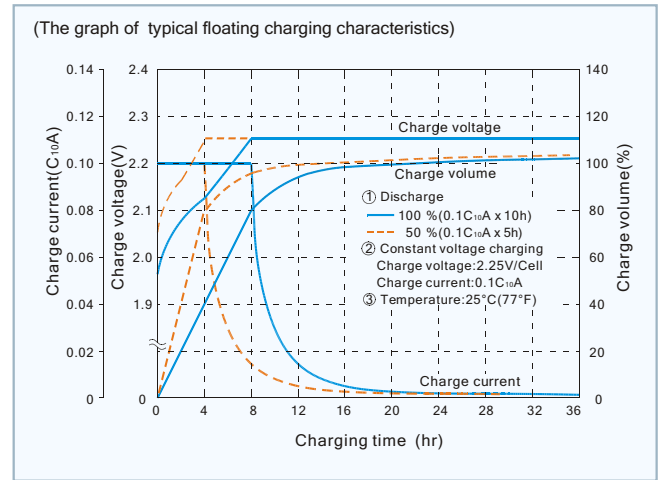
OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	171±2.0(6.73±0.08)	151±2.0(5.94±0.08)	330±2.0(12.99±0.08)	358±2.0(14.09±0.08)



MSU-300 (MSU-300FR) discharge characteristics (25°C /77°F)



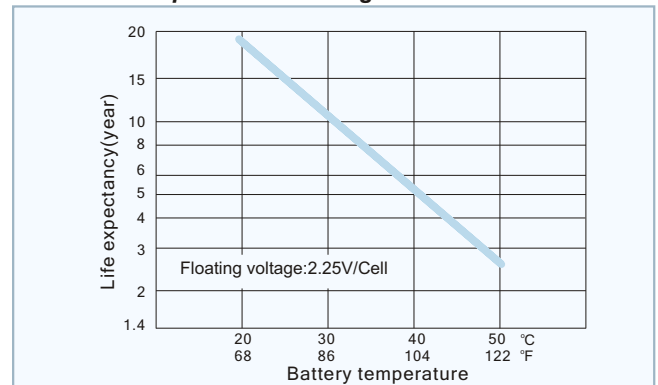
Battery Charging Characteristics



Charging Procedure

Application	Charging method	Charging Voltage at 25°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Charging time 0.1C _{10A} , 25°C (h)	
				100% discharge	50% discharge
For standby power Source	Constant voltage (with current restriction)	2.23~2.25	-3	24	20

Effect Of Temperature On Long Term Float Life



Constant power discharge characteristics at 25 °C/77 °F Unit: W

F.V (V/cell) \ Discharge Time	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	12 Hr	20 Hr
1.85V	393.5	270.0	173.7	135.3	105.2	90.6	80.7	66.8	55.8	48.36	30.13
1.80V	436.5	297.0	187.5	143.3	115.8	98.7	86.0	71.4	59.1	50.69	31.60
1.75V	478.2	315.0	198.8	150.9	121.3	103.2	89.7	73.7	61.7	52.43	32.54
1.70V	525.0	336.0	205.5	156.0	123.8	105.8	92.0	75.2	63.8	53.66	33.08
1.65V	564.0	346.5	208.5	159.2	126.3	107.3	93.8	76.5	64.7	54.41	33.35
1.60V	575.3	349.5	211.5	160.7	127.8	108.8	94.2	77.4	65.3	54.67	33.45

Constant current discharge characteristics at 25 °C/77 °F Unit: A

F.V (V/cell) \ Discharge Time	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	12 Hr	20 Hr
1.85V	210.0	144.0	91.5	70.7	55.5	47.0	40.5	33.0	28.1	24.31	15.15
1.80V	234.0	159.0	99.0	75.0	61.2	51.0	43.5	36.3	30.0	25.75	16.05
1.75V	258.5	169.5	105.5	79.4	64.2	54.0	46.5	38.0	31.7	26.90	16.70
1.70V	286.5	181.8	110.0	82.8	65.9	55.8	48.0	39.3	32.9	27.65	17.18
1.65V	306.8	189.2	113.0	85.5	67.5	57.3	49.8	40.5	33.5	28.00	17.40
1.60V	322.5	194.0	116.3	87.4	68.7	58.2	50.3	41.3	33.8	28.27	17.45

All data shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.

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