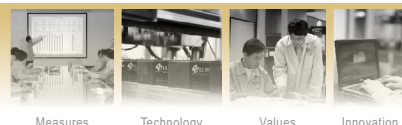




VRLA Rechargeable Battery

EP80-12



Measures

Technology

Values

Innovation

FEATURES

- Absorbent Glass Mat technology for efficient gas recombination
- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- The battery is designed for heavy duty cyclic application

APPLICATIONS

- UPS
- EV
- Telecom
- Golf-Carts



SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	80Ah @ 20 hour rate F.V.(1.75V/cell)
Approx. Weight	31.2Kg(68.8lbs.)
Terminals	B3 (Fitting M6 bolt & nut) I2 is optional
Internal Resistance	$\leq 5.0m\Omega$ (Fully Charged)
Max. Discharge Current	800 A (5 sec.)
Max. Charge Current	24 A
Operating Temperature Range	Charge $0^{\circ}\text{C}\sim 40^{\circ}\text{C}(32^{\circ}\text{F}\sim 104^{\circ}\text{F})$ Discharge $-20^{\circ}\text{C}\sim 50^{\circ}\text{C}(-4^{\circ}\text{F}\sim 122^{\circ}\text{F})$ Storage. $-20^{\circ}\text{C}\sim 40^{\circ}\text{C}(-4^{\circ}\text{F}\sim 104^{\circ}\text{F})$
Container Material	Standard: ABS(UL94 HB) EP80-12 Optional: Flame Retardant ABS(UL94 V-0) EP80-12FR



MH19884



C4M20310-2474-E-16

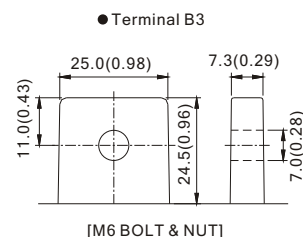
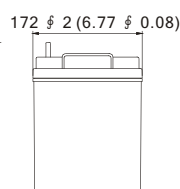
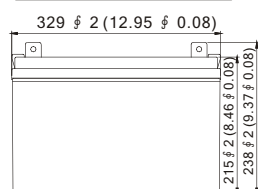
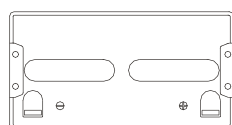
- IEC 60896-21/22
- JIS C 8704-2
- GB/T 19638.1

DIMENSION(mm/inch)

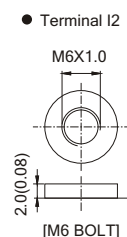
OUTER DIMENSIONS

TERMINAL TYPE

- Length
329 $\pm$ 2.0 (12.95 $\pm$ 0.08)
- Width
172 $\pm$ 2.0 (6.77 $\pm$ 0.08)
- Container Height
215 $\pm$ 2.0 (8.46 $\pm$ 0.08)
- Total Height
B3:238 $\pm$ 2.0 (9.37 $\pm$ 0.08)
I2:218.5 $\pm$ 2.0(8.60 $\pm$ 0.08)



[M6 BOLT & NUT]



[M6 BOLT]

Terminal Hardware Initial Torque: B3,I2(5.5Nm $\pm$ 5%)

Constant power discharge characteristics at 25 °C/77 °F

Unit: W

F.V. (V/cell)	Discharge Time	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V		1586	1015	553	233	161	89.8	47.0
1.75V		1661	1054	569	238	163	91.2	48.0
1.70V		1711	1078	579	240	165	91.7	48.2
1.65V		1751	1093	587	242	166	91.9	48.3
1.60V		1785	1104	593	243	166	91.9	48.3

Constant current discharge characteristics at 25 °C/77 °F

Unit: A

F.V. (V/cell)	Discharge Time	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V		143	89.8	46.5	19.4	13.4	7.49	3.91
1.75V		151	93.3	47.8	19.8	13.6	7.60	4.00
1.70V		156	95.4	48.7	20.0	13.7	7.64	4.02
1.65V		159	96.7	49.4	20.2	13.8	7.66	4.03
1.60V		162	97.7	49.8	20.3	13.8	7.66	4.03

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

For operation, please refer to the instruction from technical manual.

B/3 REV.May. 2025

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