



VRLA Rechargeable Battery

EP40-12



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
- Low self-discharge rate, lower than 3% capacity loss per month

APPLICATION

- UPS
- Golf-Carts
- Wheelchairs
- Lawn Mowers
- Electric Vehicles



SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	40Ah @ 20 hour rate F.V.(1.75V/cell)
Approx. Weight	14600g(32.19lbs.)
Terminals	B2 (Fitting M5 bolt & nut) , I1 and I2 are optional
Internal Resistance	$\leq 8m\Omega$ (Fully Charged)
Max. Discharge Current	600 A (5 sec.)
Max. Charge Current	12 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)
Container Material	Standard: ABS(UL 94-HB) EP40-12 Optional: Flame Retardant ABS(UL 94-V0) EP40-12FR



- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
Length 197±1.5 (7.76±0.06) Width 165±1.5 (6.50±0.06) Container Height 171±1.5 (6.73±0.06) Total Height 171±1.5 (6.73±0.06)		Terminal B2 Terminal I1 Terminal I2 Terminal Hardware Initial Torque: B2/I1(4.0 Nm ± 5%), I2(5.5 Nm ± 5%)

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

F.V. (V/cell)	Discharge Time	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V		1303.0	979.4	793.1	477.1	276.6	116.6	80.6	44.91	23.49
1.75V		1509.0	1061.1	830.3	495.4	284.6	118.9	81.7	45.60	24.00
1.70V		1600.0	1099.4	855.4	506.3	289.7	120.0	82.3	45.83	24.11
1.65V		1674.0	1125.7	875.4	513.7	293.7	121.1	82.9	45.94	24.17
1.60V		1726.0	1148.0	892.6	518.9	296.6	121.7	82.9	45.94	24.17

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

F.V. (V/cell)	Discharge Time	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V		117.39	86.21	68.97	40.43	23.24	9.72	6.72	3.74	1.96
1.75V		138.44	93.41	72.20	41.98	23.92	9.91	6.81	3.80	2.00
1.70V		146.79	96.78	74.38	42.91	24.34	10.00	6.86	3.82	2.01
1.65V		153.58	99.09	76.12	43.53	24.68	10.09	6.91	3.83	2.01
1.60V		158.35	101.06	77.62	43.97	24.92	10.14	6.91	3.83	2.01

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