



VRLA Rechargeable Battery

EP40-12 (EP40-12FR)



Measures

Technology

Values

Innovation

FEATURES

- 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	≤8mΩ (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	ABS(UL94-HB, UL94-V0 is optional)

ISO 9001	
ISO14001	
UL	
CE	
<ul style="list-style-type: none"> ● IEC61056 ● JIS C 8702 ● GB/T 19639 	

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

197±1.5 (7.76±0.06)

Width

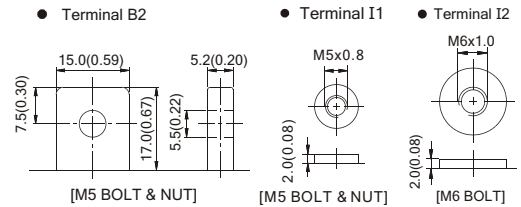
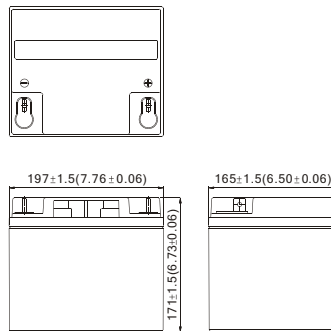
165±1.5 (6.50±0.06)

Container Height

171±1.5 (6.73±0.06)

Total Height

171±1.5 (6.73±0.06)



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