

## **Excellent Integrated System Limited**

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[EP40-12-B2](#)

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## 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	≤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	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
<b>Length</b> 197±1.5 (7.76±0.06)		● Terminal B2 
<b>Width</b> 165±1.5 (6.50±0.06)		● Terminal I1 
<b>Container Height</b> 171±1.5 (6.73±0.06)		● Terminal I2 
<b>Total Height</b> 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 and artworks shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.