



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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
Length 197±1.5 (7.76±0.06)		● Terminal B2 [M5 BOLT & NUT]
Width 165±1.5 (6.50±0.06)		● Terminal I1 [M5 BOLT & NUT]
Container Height 171±1.5 (6.73±0.06)		● Terminal I2 [M6 BOLT]
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

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