



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

## EP28-12



### 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	28Ah @ 20 hour rate F.V.(1.75V/cell)
Approx. Weight	9700g(21.39lbs.)
Terminals	B1 (Fitting M5 bolt & nut) , T2 and I1 are optional
Internal Resistance	≤10m Ω (Fully Charged )
Max. Discharge Current	420 A (5 sec.)
Max. Charge Current	8.4 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) EP28-12 Optional: Flame Retardant ABS(UL 94-V0) EP28-12FR

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

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
<b>Length</b> 175±1.5 (6.89±0.06)		● Terminal B1 
<b>Width</b> 166±1.5 (6.54±0.06)		● Terminal T2 
<b>Container Height</b> 125±1.5 (4.92±0.06)		● Terminal I1 
<b>Total Height</b> 125±1.5 (4.92±0.06)		Terminal Hardware Initial Torque: B1 (2.5Nm±5%), I1(4.0Nm±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	912.0	685.6	555.2	334.0	193.6	81.6	56.4	31.44	16.44
1.75V	1056.0	742.8	581.2	346.8	199.2	83.2	57.2	31.92	16.80
1.70V	1120.0	769.6	598.8	354.4	202.8	84.0	57.6	32.08	16.88
1.65V	1172.0	788.0	612.8	359.6	205.6	84.8	58.0	32.16	16.92
1.60V	1208.0	803.6	624.8	363.2	207.6	85.2	58.0	32.16	16.92

### 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	82.2	60.4	48.3	28.3	16.3	6.80	4.70	2.62	1.37
1.75V	96.9	65.4	50.5	29.4	16.7	6.93	4.77	2.66	1.40
1.70V	102.8	67.7	52.1	30.0	17.0	7.00	4.80	2.67	1.41
1.65V	107.5	69.4	53.3	30.5	17.3	7.07	4.83	2.68	1.41
1.60V	110.8	70.7	54.3	30.8	17.4	7.10	4.83	2.68	1.41

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