

Excellent Integrated System Limited

Stocking Distributor

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[B B Battery](#)
[BP4.5-12-T1](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



VRLA Rechargeable Battery

BP4.5-12



FEATURES

- Maintenance free(no water topping-up required).
- No free acid(Non-spillable battery).
- Low self-discharge rate, lower than 3% capacity loss per month.
- Can be used in any orientation(excluding used inverted).
- Absorbent Glass Mat technology for efficient gas recombination.

APPLICATION

- UPS
- Electronic Doorbells
- Toy-Cars
- Fans



SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	4.5Ah @ 20 hour rate F.V.(1.75V/cell)
Approx. Weight	1840g(4.06lbs.)
Terminals	T1 (Faston Tab 187) T2 is optional
Internal Resistance	$\leq 42m \Omega$ (Fully Charged)
Max. Discharge Current	67.5 A (5 sec.)
Max. Charge Current	1.35 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) BP4.5-12 Optional: Flame Retardant ABS(UL 94-V0) BP4.5-12FR



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

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

90±1.5 (3.54±0.06)

Width

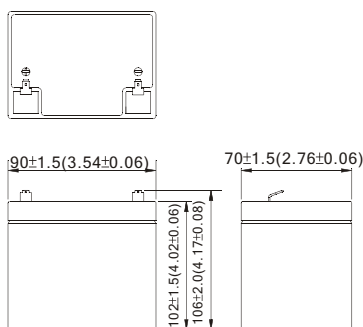
70±1.5 (2.76±0.06)

Container Height

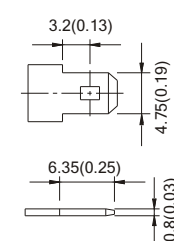
102±1.5 (4.02±0.06)

Total Height

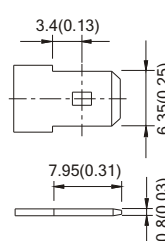
106±2.0 (4.17±0.08)



Terminal T1



Terminal T2



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		162.7	119.8	96.0	57.1	32.75	13.12	9.04	5.054	2.660
1.75V		188.3	129.8	100.4	59.3	33.73	13.38	9.18	5.130	2.700
1.70V		200.1	134.4	103.5	60.6	34.34	13.50	9.23	5.156	2.712
1.65V		209.1	137.6	105.9	61.5	34.75	13.59	9.26	5.171	2.724
1.60V		216.0	140.4	108.0	62.1	35.10	13.68	9.29	5.171	2.724

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		14.66	10.54	8.35	4.84	2.75	1.09	0.754	0.421	0.222
1.75V		17.28	11.42	8.73	5.02	2.83	1.11	0.765	0.427	0.225
1.70V		18.36	11.83	9.00	5.14	2.89	1.12	0.769	0.430	0.226
1.65V		19.18	12.12	9.21	5.21	2.92	1.13	0.772	0.431	0.227
1.60V		19.82	12.36	9.39	5.26	2.95	1.14	0.774	0.431	0.227

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