

FP6-4.5

Datasheet

FULBAT[®]

INDUSTRIAL BATTERY



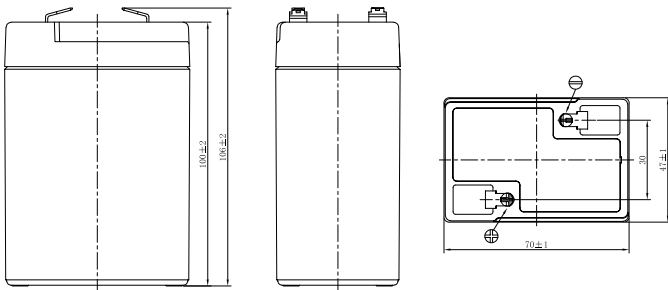
AGM

NON-SPILLABLE

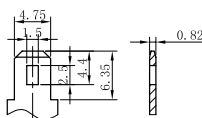
FP Series are general purpose batteries with 8 years design life in float service. With advanced AGM valve regulated technology and high purity raw material, the FP series batteries ensure high performance and reliable standby service life. They have been designed specifically for applications such as security & alarm systems, UPS, Telecom, power grid, medical equipment and emergency lighting. It can also be used for light cycling use. For intensive cycling, the FPC or FPG cyclic ranges are recommended.

DIMENSIONS & WEIGHT

Length	70±2mm
Width	47±2mm
Total height	105±2mm
Gross weight	0.65kg



TERMINAL



SPECIFICATIONS

Nominal voltage	6V (3 cells)
Nominal capacity	4.5Ah (20hr)
Design life	8 years at 25°C
Internal resistance	Approx 27mΩ
Terminal	T1
Max. discharge current	45A (5 sec)
Reference capacity	4.50Ah (20hr, 1.75V/cell, 25°C) 4.21Ah (10hr, 1.75V/cell, 25°C) 3.83Ah (5hr, 1.75V/cell, 25°C) 3.38Ah (3hr, 1.75V/cell, 25°C)
Charge voltage	6.57V ~ 6.96V 25°C
Standby use voltage	Temperature compensation: -3mV/°C/Cell
Cycle use voltage	7.3V ~ 7.4V 25°C Temperature compensation: -4mV/°C/Cell
Operating temp. range	Discharge: -20°C ~ 60°C Charge: 0°C ~ 50°C Storage: -20°C ~ 60°C
Nominal operating temp. range	25°C ± 3°C
Self discharge	Can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly self-discharge ratio is less than 3% at 25°C
Capacity affected by temp.	40°C 103% 25°C 100% 0°C 86%
Container material	A.B.S. UL94-HB UL94-V0 optional

APPROVALS

ISO9001 - Quality management system
ISO14001 - Environmental management System
Approved for transport by Air (IATA)
Designed in accordance with IEC 60896-21/22

APPLICATIONS



Emergency & security



Medical

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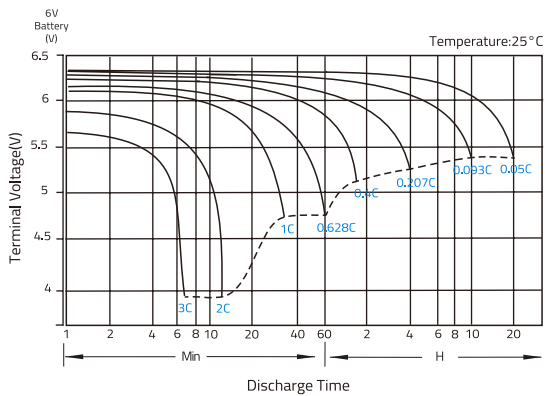
CONSTANT CURRENT DISCHARGE (A) @25°C

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	17.07	12.07	8.723	5.010	2.749	1.688	1.269	1.025	0.849	0.546	0.444	0.234
1.65V/cell	15.88	11.40	8.339	4.810	2.655	1.634	1.230	0.997	0.827	0.540	0.438	0.231
1.70V/cell	14.33	10.50	7.811	4.597	2.569	1.580	1.196	0.970	0.805	0.532	0.432	0.228
1.75V/cell	12.83	9.609	7.268	4.394	2.475	1.525	1.161	0.945	0.785	0.525	0.426	0.225
1.80V/cell	11.27	8.698	6.711	4.200	2.380	1.471	1.125	0.918	0.765	0.516	0.421	0.223
1.85V/cell	8.945	7.108	5.569	3.617	2.135	1.347	1.040	0.853	0.713	0.484	0.396	0.212

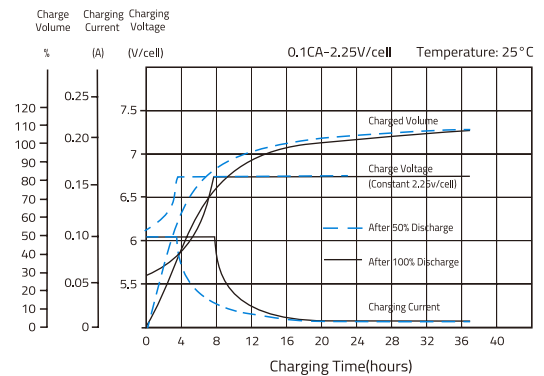
CONSTANT POWER DISCHARGE (W/CELL) @25°C

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	28.30	20.51	15.25	9.100	5.167	3.199	2.424	1.967	1.636	1.067	0.872	0.461
1.65V/cell	26.62	19.76	14.79	8.828	5.018	3.112	2.359	1.921	1.600	1.057	0.863	0.455
1.70V/cell	24.57	18.52	14.06	8.522	4.885	3.026	2.305	1.876	1.564	1.043	0.851	0.450
1.75V/cell	22.50	17.26	13.28	8.229	4.735	2.934	2.246	1.835	1.529	1.031	0.841	0.445
1.80V/cell	20.18	15.90	12.43	7.945	4.580	2.843	2.185	1.788	1.495	1.016	0.831	0.441
1.85V/cell	16.35	13.22	10.46	6.911	4.133	2.619	2.029	1.668	1.399	0.956	0.783	0.419

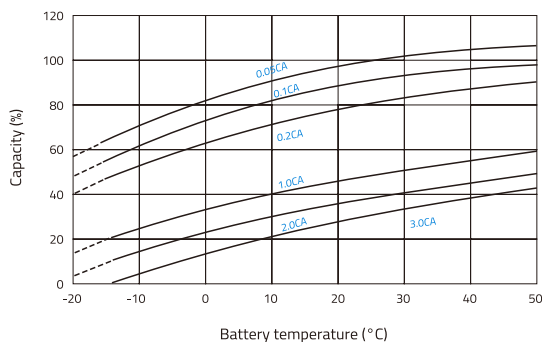
DISCHARGE CHARACTERISTICS



FLOAT CHARGING CHARACTERISTICS



TEMPERATURE IN RELATION TO BATTERY CAPACITY



TEMPERATURE ON LONG TERM FLOAT LIFE

