

FP6-12

Datasheet

FULBAT[®]

INDUSTRIAL BATTERY



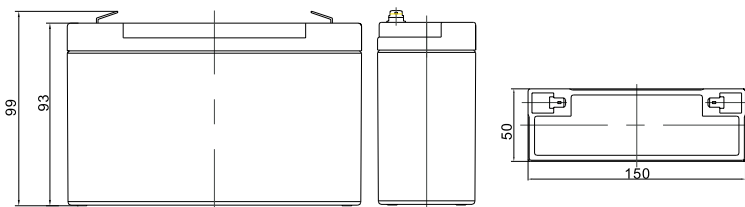
AGM

NON-SPILLABLE

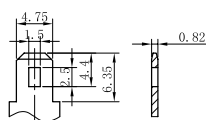
FP Series are general purpose batteries with 8 years design life in float service. With advanced AGM valve regulated technology and high purity raw material, the FP series batteries ensure high performance and reliable standby service life. They have been designed specifically for applications such as 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	150±2mm
Width	50±2mm
Total height	99±2mm
Gross weight	1.60kg



TERMINAL



SPECIFICATIONS

Nominal voltage	6V (3 cells)
Nominal capacity	12.0Ah (20hr)
Design life	8 years at 25°C
Internal resistance	Approx 12mΩ
Terminal	T2
Max. discharge current	120A (5 sec)
Reference capacity	12.0Ah (20hr, 1.75V/cell, 25°C) 11.2Ah (10hr, 1.75V/cell, 25°C) 10.2Ah (5hr, 1.75V/cell, 25°C) 9.00Ah (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



UPS & data center

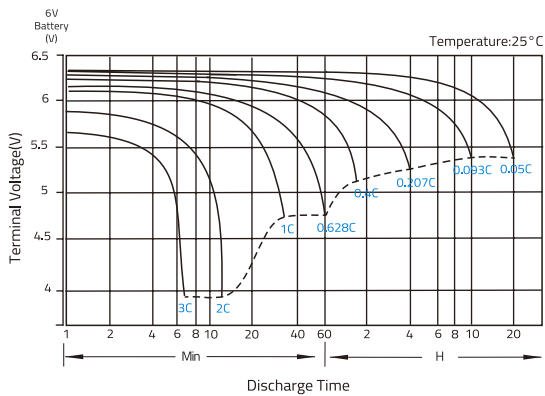
CONSTANT CURRENT DISCHARGE (A) @25°C

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	44.16	31.53	23.03	13.23	7.332	4.502	3.384	2.732	2.264	1.457	1.183	0.625
1.65V/cell	41.07	29.80	22.02	12.70	7.080	4.358	3.280	2.658	2.205	1.441	1.169	0.615
1.70V/cell	37.05	27.43	20.62	12.14	6.850	4.214	3.190	2.586	2.148	1.417	1.151	0.607
1.75V/cell	33.20	25.11	19.19	11.60	6.600	4.067	3.095	2.520	2.094	1.399	1.136	0.600
1.80V/cell	29.15	22.73	17.72	11.09	6.347	3.921	2.999	2.447	2.040	1.375	1.122	0.594
1.85V/cell	23.14	18.58	14.70	9.549	5.693	3.593	2.773	2.275	1.902	1.291	1.056	0.564

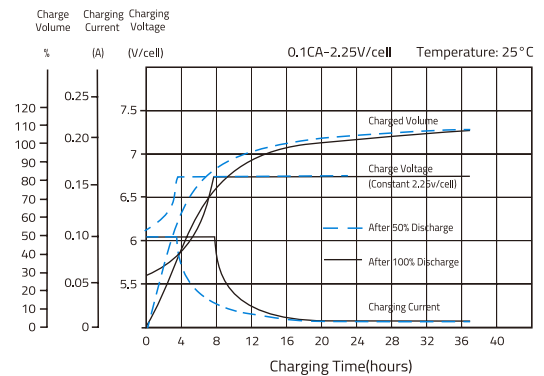
CONSTANT POWER DISCHARGE (W/CELL) @25°C

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	73.21	53.60	40.26	24.02	13.75	8.532	6.463	5.245	4.363	2.845	2.326	1.230
1.65V/cell	68.87	51.63	39.06	23.31	13.38	8.300	6.290	5.122	4.266	2.819	2.301	1.213
1.70V/cell	63.55	48.40	37.13	22.50	13.03	8.070	6.146	5.002	4.169	2.782	2.269	1.199
1.75V/cell	58.20	45.10	35.05	21.73	12.63	7.825	5.988	4.892	4.076	2.749	2.242	1.186
1.80V/cell	52.19	41.54	32.82	20.98	12.21	7.583	5.826	4.769	3.988	2.708	2.216	1.176
1.85V/cell	42.30	34.55	27.63	18.24	11.02	6.985	5.410	4.449	3.731	2.548	2.089	1.118

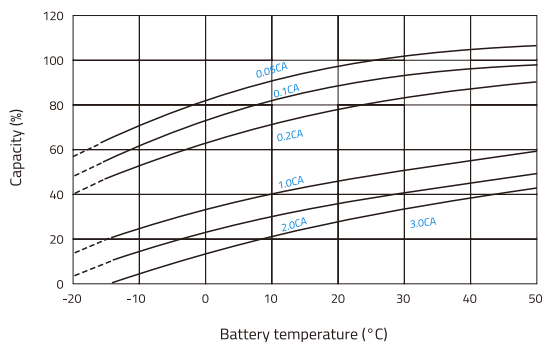
DISCHARGE CHARACTERISTICS



FLOAT CHARGING CHARACTERISTICS



TEMPERATURE IN RELATION TO BATTERY CAPACITY



TEMPERATURE ON LONG TERM FLOAT LIFE

