DATA Sheet

FP6-12



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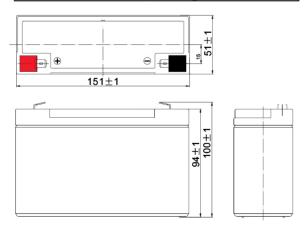
NON-SPILLABLE



FP Series are general purpose batteries with 5 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

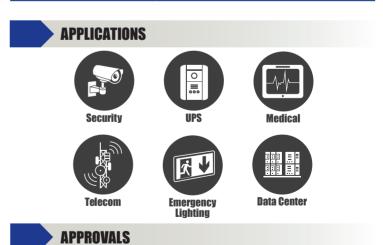
LENGHT	151±2mm					
WIDTH	51±1mm					
TOTAL HEIGHT	100±2mm					
WEIGHT	1.63kg (tolerance ± 3%)					



TERMINAL (MM)



SPECIFICATION						
Nominal voltage	6V (3 cells)					
Nominal capacity	12.0Ah (20hr)					
Design life	5 years at 20°C					
Internal resistance	Αρρτοχ 15mΩ					
Terminal	T2					
Max. discharge current	180A (5 sec)					
Reference capacity	12.0Ah (20hr, 1.80V/cell, 25°C/77°F) 11.2Ah (10hr, 1.80V/cell, 25°C/77°F) 10.2Ah (5hr, 1.75V/cell, 25°C/77°F) 9.2Ah (3hr, 1.75V/cell, 25°C/77°F) 7.54Ah (1hr, 1.60V/cell, 25°C/77°F)					
Charge voltage Standby use voltage	6.75V ~ 6.9V 25°C/77°F Temperature compensation: -10mV/°C/Cell					
Cycle use voltage	7.2V ~ 7.5V 25°C/77°F Temperature compensation: -15mV/°C/Cell					
Operating temp. range	Discharge: -15°C ~ 50°C Charge: 0°C ~ 40°C Storage: -15°C ~ 40°C					
Nominal operating temp. range	25°C ± 3°C / 77°F ± 5°F					
Self discharge	Can be stored for up to 6 months at 25°C/77°F and then recharging is recommended. Monthly self-discharge ratio is less than 3% at 25°C/77°F					
Capacity affected by temp.	40°C/104°F 103% 25°C/77°F 100% 0°C/32°F 86%					
Container material	A.B.S. UL94-HB UL94-VD optional					



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





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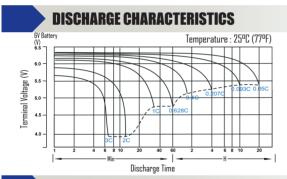
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CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C/77°F

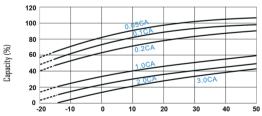
F.V/Time	5min	10min	15min	20min	30min	45min	1h	Zh	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	22.9	17.5	14.5	12.6	9.72	7.16	6.03	3.57	2.79	2.27	1.85	1.61	1.30	1.08	0.594
1.80V/cell	30.7	22.4	17.6	14.9	11.5	8.33	6.76	3.90	3.00	2.42	1.99	1.72	1.37	1.12	0.600
1.75V/cell	34.6	24.6	19.2	16.0	11.9	8.64	7.07	4.04	3.06	2.48	2.04	1.77	1.40	1.15	0.606
1.70V/cell	38.1	26.9	20.5	16.8	12.4	8.99	7.29	4.14	3.15	2.54	2.09	1.81	1.42	1.17	0.617
1.65V/cell	42.0	29.0	21.8	17.8	13.1	9.21	7.46	4.20	3.28	2.63	2.15	1.85	1.44	1.19	0.625
1.60V/cell	46.3	31.5	23.3	19.0	13.8	9.60	7.54	4.38	3.38	2.71	2.22	1.89	1.45	1.21	0.629

CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C/77°F

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	41.8	32.4	27.1	23.7	18.5	13.8	11.6	6.93	5.44	4.44	3.63	3.16	2.56	2.14	1.18
1.80V/cell	55.5	40.9	32.3	27.6	21.5	15.9	13.0	7.51	5.82	4.71	3.88	3.37	2.71	2.21	1.19
1.75V/cell	61.2	44.3	34.9	29.4	22.2	16.3	13.5	7.76	5.91	4.80	3.97	3.46	2.75	2.26	1.20
1.70V/cell	65.6	47.1	36.7	30.7	22.9	16.9	13.9	7.94	6.06	4.92	4.06	3.52	2.78	2.31	1.22
1.65V/cell	71.3	50.4	38.7	32.3	24.0	17.2	14.1	8.01	6.29	5.07	4.16	3.59	2.82	2.35	1.23
1.60V/cell	76.8	53.5	40.8	34.1	25.2	17.8	14.2	8.31	6.45	5.21	4.28	3.65	2.84	2.37	1.24

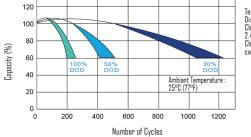


TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



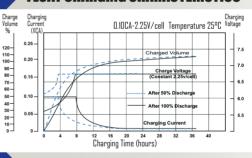
Temperature (°C)

CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

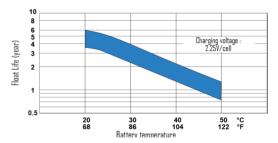


Testing condition Discharging:current D.17C A(FV 1.7V/cell); Charging:current D.2SC max, voltage 2.4SV/cell; Charging volume:125% of discharged capacity

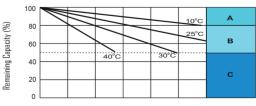
FLOAT CHARGING CHARACTERISTICS



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



SELF DISCHARGE CHARACTERISTICS



Storage Times (Months)

- No supplementary charge required (carry out supplementary charge before use if 100% capacity is required) B Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell
- Charged for above 2D hours at limited current D.25CA and constant voltage 2.45V/cell
 Charged for 8-1D hours at limited current D.05CA
- Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached

