FP12-7.2FR



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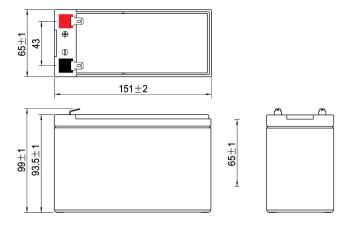




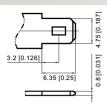
FP Series are general purpose batteries with 5 years design life in float service. With advanced AGM valve regulated technology and high purity raw material, the FP series batteries ensure high performance and reliable standby service life. They have been designed specifically for applications such as 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	65±1mm
TOTAL HEIGHT	99±1mm
WFIGHT	7.04kg (tolerance ± 3%)



TERMINAL (MM)



SPECIFICATION						
Nominal voltage	12V (6 cells)					
Nominal capacity	7.2Ah (20hr)					
Design life	5 years at 20°C					
Internal resistance	Approx $23m\Omega$					
Terminal	TI					
Max. discharge current	105A (5 sec)					
Reference capacity	7.20Ah (20hr, 1.80V/cell, 25°C/77°F) 6.70Ah (10hr, 1.80V/cell, 25°C/77°F) 5.90Ah (5hr, 1.75V/cell, 25°C/77°F) 5.13Ah (3hr, 1.75V/cell, 25°C/77°F) 4.26Ah (1hr, 1.60V/cell, 25°C/77°F)					
Charge voltage						
Standby use voltage	13.5V ~ 13.8V 25°C/77°F Temperature compensation: -10mV/°C/Cell					
Cycle use voltage	14.4V ~ 15.0V 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-dischargeratio 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	Flame Retardant UL94-VO					

APPLICATIONS









Data Center

Emergency Lighting

APPROVALS

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



DATA SHEET



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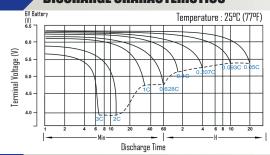
CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C/77°F

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.0	11.7	9.97	8.46	6.17	4.52	3.60	2.14	1.60	1.30	1.10	0.95	0.756	0.626	0.343
1.80V/cell	19.2	13.7	11.3	9.20	6.65	4.80	3.83	2.24	1.66	1.35	1.14	0.99	0.783	0.653	0.350
1.75V/cell	21.5	14.9	12.0	9.70	6.92	4.99	3.98	2.31	1.71	1.38	1.16	1.01	0.795	0.663	0.357
1.70V/cell	23.4	15.9	12.8	10.2	7.18	5.12	4.05	2.36	1.75	1.41	1.19	1.03	0.812	0.672	0.361
1.65V/cell	25.5	16.8	13.4	10.6	7.43	5.28	4.17	2.40	1.77	1.43	1.21	1.04	0.823	0.680	0.365
1.60V/cell	26.8	17.6	13.8	10.9	7.64	5.42	4.26	2.46	1.81	1.46	1.23	1.06	0.837	0.690	0.371

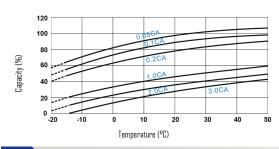
CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C/77°F

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.3	22.3	19.2	16.4	12.0	8.86	7.09	4.23	3.17	2.59	2.20	1.91	1.52	1.26	0.694
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.37	7.52	4.42	3.30	2.69	2.27	1.97	1.57	1.31	0.704
1.75V/cell	39.8	28.0	22.8	18.6	13.4	9.72	7.79	4.55	3.37	2.74	2.31	2.00	1.59	1.33	0.716
1.70V/cell	42.8	29.5	24.0	19.3	13.8	9.89	7.88	4.61	3.42	2.78	2.34	2.03	1.61	1.33	0.718
1.65V/cell	45.7	30.7	24.8	19.8	14.1	10.1	8.02	4.65	3.45	2.80	2.36	2.05	1.62	1.34	0.720
1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.13	4.73	3.50	2.83	2.39	2.07	1.63	1.35	0.728

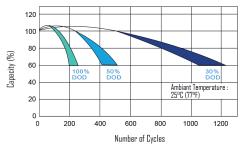
DISCHARGE CHARACTERISTICS



TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY

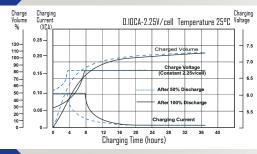


CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

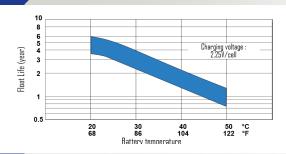


Testing condition Discharging:current 0.17C A(FV1.7V/cell); Charging:current 0.25C max, voltage 2.45V/cell; Charging volume:125% of discharged cancelty. capacity.

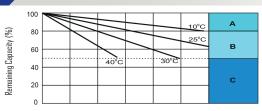
FLOAT CHARGING CHARACTERISTICS



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)
- 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 20 hours at limted current 0.25CA and constant voltage 2.45V/cell
 Charged for 8-10 hours at limited current 0.05CA
- Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached

