FP12-24VdS

Datasheet







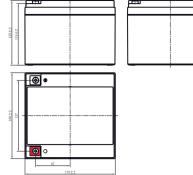


FP Series are general purpose batteries with 5 years design life in float service. With advanced AGM valve regulated technology and high purity raw material, the FP series batteries ensure high performance and reliable standby service life. They have been designed specifically for applications such as 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	166±2mm
Width	175±2mm
Total height	122±2mm
Gross weight	7.2kg

Gross weight



37 SPECIFICATIO					
Nominal voltage	12V (6 cells)				
Nominal capacity	24.0Ah (20hr)				
Design life	5 years at 25°C				
Internal resistance	Approx 18mΩ				
Terminal	T12				
Max. discharge current	360.0A (5 sec)				
Reference capacity	24.00Ah (20hr, 1.75V/cell, 25°C) 22.7Ah (10hr, 1.75V/cell, 25°C) 19.90Ah (5hr, 1.75V/cell, 25°C) 17.30Ah (3hr, 1.75V/cell, 25°C) 14.30Ah (1hr, 1.60V/cell, 25°C)				
Charge voltage	, , , , , ,				
Standby use voltage	13.5V ~ 13.8V 25°C Temperature compensation: -20mV/°C/Cell				
Cycle use voltage	14.4V ~ 15.0V 25°C Temperature compensation: -30mV/°C/Cell				
Operating temp. range	Discharge: -15°C ~ 50°C Charge: -20°C ~ 40°C Storage: -15°C ~ 40°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	40°C 103%				

APPROVALS

Container material

temp.

A SPECIFICATIONS

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

25°C

0°C

TERMINAL



A APPLICATIONS







Emergency

Medical UPS & data center

100%

86% A.B.S. UL94-HB | UL94-V0 optional





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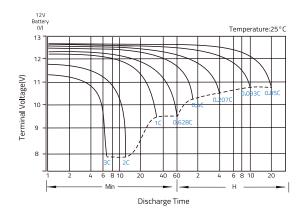
√ CONSTANT CURRENT DISCHARGE (A) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	42.2	33.8	28.1	21.2	15.6	13.0	7.63	5.57	4.49	3.86	3.34	2.67	2.22	1.17
1.80V/cell	44.7	35.5	29.3	21.8	16.1	13.3	7.78	5.66	4.55	3.92	3.40	2.71	2.25	1.19
1.75V/cell	46.5	36.7	30.1	22.4	16.4	13.6	7.92	5.75	4.61	3.97	3.43	2.74	2.27	1.20
1.70V/cell	48.4	37.9	30.9	23.0	16.8	13.8	8.03	5.84	4.68	4.02	3.48	2.76	2.29	1.21
1.67V/cell	49.8	38.9	31.6	23.4	17.1	14.0	8.12	5.89	4.72	4.06	3.51	2.79	2.31	1.22
1.60V/cell	51.9	40.2	32.5	24.0	17.5	14.3	8.29	6.00	4.81	4.12	3.56	2.82	2.34	1.23

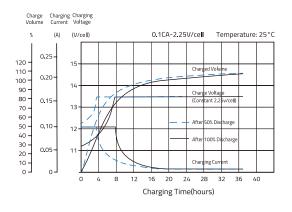
√ CONSTANT POWER DISCHARGE (W/CELL) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	80.3	64.8	54.2	40.9	30.4	25.2	14.9	10.9	8.84	7.62	6.61	5.29	4.41	2.35
1.80V/cell	84.6	67.6	56.1	42.0	31.1	25.8	15.2	11.1	8.95	7.72	6.71	5.36	4.46	2.37
1.75V/cell	87.3	69.4	57.3	42.9	31.6	26.2	15.4	11.3	9.06	7.81	6.77	5.41	4.50	2.40
1.70V/cell	90.2	71.3	58.6	43.8	32.2	26.6	15.6	11.4	9.17	7.91	6.85	5.46	4.55	2.42
1.67V/cell	92.2	72.8	59.7	44.4	32.6	26.9	15.8	11.5	9.25	7.96	6.90	5.50	4.58	2.44
1.60V/cell	94.9	74.8	61.2	45.4	33.2	27.4	16.0	11.7	9.39	8.07	6.99	5.58	4.63	2.47

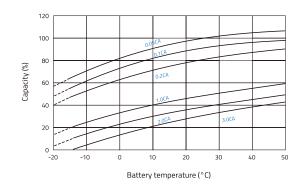
⋄ DISCHARGE CHARACTERISTICS



FLOAT CHARGING CHARACTERISTICS



√ TEMPERATURE IN RELATION TO BATTERY CAPACITY



√ TEMPERATURE ON LONG TERM FLOAT LIFE

