FP12-40 **Datasheet**





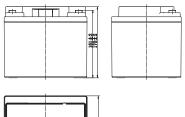


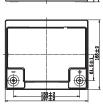


FP Series are general purpose batteries with 10 years design life in float service. With advanced AGM valve regulated technology and high purity raw material, the FP series batteries ensure high performance and reliable standby service life. They have been designed specifically for applications such 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	197±2mm
Width	165±2mm
Total height	170±2mm
Gross weight	12.0kg





⋄ SPECIFICATIONS

Nominal voltage	12V (6 cells)
Nominal capacity	40.0Ah (20hr)
Design life	10 years at 25°C
Internal resistance	Approx 10mΩ
Terminal	T6
Max. discharge	380.0A (5 sec)
current	
Reference capacity	40.00Ah (20hr, 1.75V/cell, 25°C)
	38.00Ah (10hr, 1.75V/cell, 25°C)
	32.60Ah (5hr, 1.75V/cell, 25°C)
	29.20Ah (3hr, 1.75V/cell, 25°C)
	24.00Ah (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.	Discharge: -15°C ~ 50°C
range	Charge: -20°C ~ 40°C
	Storage: -15°C ~ 40°C
Nominal operating	25°C ± 3°C

Capacity affected by 40°C 103% 25°C 100% temp. 0°C 86%

A.B.S. UL94-HB | UL94-VO optional Container material

3% at 25°C

APPROVALS

temp. range

Self discharge

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

TERMINAL



A APPLICATIONS







Can be stored for up to 6 months at 25°C

and then recharging is recommended. Monthly self-discharge ratio is less than

Emergency

Medical UPS & data center









FP12-40

Datasheet



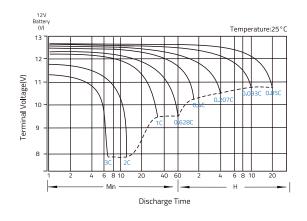
√ CONSTANT CURRENT DISCHARGE (A) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	61.8	57.7	45.6	34.6	25.1	18.9	11.8	8.66	7.08	5.92	5.47	4.17	3.49	1.83
1.80V/cell	70.2	64.5	51.0	38.7	26.6	20.9	12.8	9.50	7.63	6.37	5.87	4.47	3.80	2.00
1.75V/cell	76.1	68.9	54.4	41.3	27.5	21.6	13.2	9.74	7.82	6.52	5.92	4.55	3.84	2.02
1.70V/cell	81.2	72.4	57.2	43.5	28.1	22.4	13.7	9.92	8.02	6.66	5.95	4.63	3.88	2.04
1.67V/cell	83.7	73.6	58.1	44.1	28.5	22.9	13.8	10.1	8.13	6.74	5.98	4.68	3.91	2.05
1.60V/cell	86.6	74.6	59.0	44.8	28.9	24.0	14.4	10.4	8.36	6.95	6.02	4.79	3.96	2.08

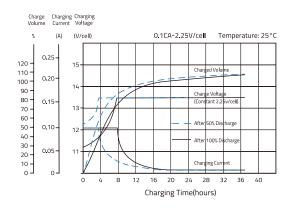
√ CONSTANT POWER DISCHARGE (W/CELL) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	114.2	102.7	81.2	61.7	45.3	40.0	22.7	17.4	13.8	11.5	10.4	8.16	6.86	3.60
1.80V/cell	127.8	114.9	90.8	69.0	47.7	43.8	24.6	18.6	14.7	12.4	11.1	8.71	7.28	3.82
1.75V/cell	136.4	122.6	96.8	73.5	49.1	45.1	25.3	19.0	15.1	12.6	11.1	8.88	7.39	3.88
1.70V/cell	143.4	128.9	101.9	77.4	49.7	32.6	26.0	19.6	15.4	12.8	11.2	8.98	7.49	3.93
1.67V/cell	145.7	131.0	103.5	78.6	50.2	33.1	26.2	19.9	15.6	13.0	11.2	9.09	7.54	3.96
1.60V/cell	147.7	132.9	105.0	79.7	50.4	34.2	27.2	20.4	15.9	13.3	11.2	9.28	7.66	4.03

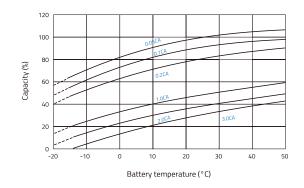
⋄ DISCHARGE CHARACTERISTICS



FLOAT CHARGING CHARACTERISTICS



√ TEMPERATURE IN RELATION TO BATTERY CAPACITY



√ TEMPERATURE ON LONG TERM FLOAT LIFE

