

FP12-80

Datasheet

FULBAT®
GENERAL PURPOSE BATTERY



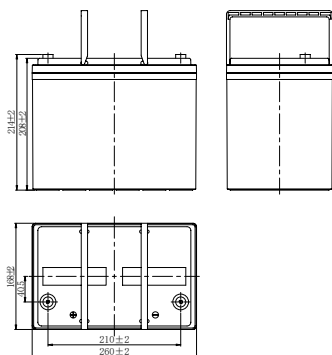
AGM

NON-SPILLABLE

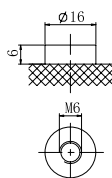
FP Series are general purpose batteries with 10 years design life in float service. With advanced AGM valve regulated technology and high purity raw material, the FP series batteries ensure high performance and reliable standby service life. They have been designed specifically for applications such 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

Length	260±2mm
Width	168±2mm
Total height	214±2mm
Gross weight	22.30kg



TERMINAL



SPECIFICATIONS

Nominal voltage	12V (6 cells)
Nominal capacity	80.0Ah (20hr)
Design life	10 years at 25°C
Internal resistance	Approx 6.6mΩ
Terminal	T6
Max. discharge current	750.0A (5 sec)
Reference capacity	80.00Ah (20hr, 1.75V/cell, 25°C) 75.00Ah (10hr, 1.75V/cell, 25°C) 68.50Ah (5hr, 1.75V/cell, 25°C) 62.10Ah (3hr, 1.75V/cell, 25°C) 47.80Ah (1hr, 1.60V/cell, 25°C)

Charge voltage	13.5V ~ 13.8V 25°C
Standby use voltage	Temperature compensation: -3mV/°C/Cell
Cycle use voltage	14.4V ~ 15.0V 25°C
	Temperature compensation: -5mV/°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 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

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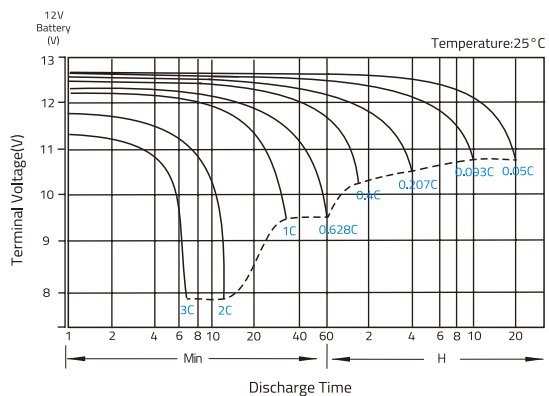
CONSTANT CURRENT DISCHARGE (A) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	106.5	96.2	75.7	67.6	49.5	41.9	25.5	18.7	14.7	12.8	11.2	8.64	7.16	3.80
1.80V/cell	120.	109.0	85.5	73.6	52.4	43.4	26.4	20.3	15.7	13.4	12.1	9.09	7.50	3.94
1.75V/cell	131.1	118.0	92.3	75.2	54.3	45.5	27.8	20.7	16.0	13.7	12.2	9.14	7.58	3.98
1.70V/cell	139.8	125.3	97.9	76.7	55.4	46.5	28.3	21.1	16.3	13.9	12.2	9.28	7.65	4.02
1.67V/cell	144.2	129.0	100.6	77.8	56.2	47.1	28.7	21.3	16.5	14.2	12.3	9.41	7.75	4.07
1.60V/cell	149.2	133.0	103.2	78.9	57.0	47.8	29.1	21.5	16.7	14.4	12.4	9.53	7.84	4.11

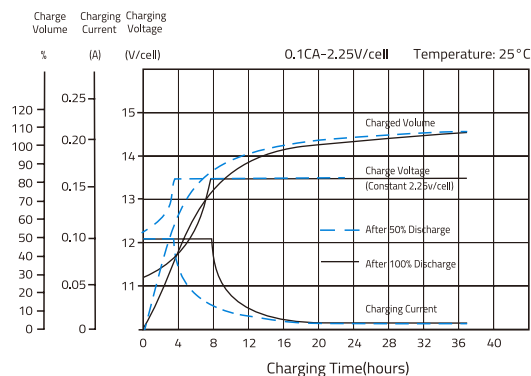
CONSTANT POWER DISCHARGE (W/CELL) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	200.4	182.1	143.9	129.3	93.2	81.0	49.7	36.6	28.8	25.1	21.8	17.2	14.2	7.57
1.80V/cell	224.2	203.8	161.0	139.6	98.1	83.5	51.0	39.5	30.7	26.3	23.3	18.0	14.9	7.83
1.75V/cell	239.2	217.5	171.8	141.4	101.0	87.2	53.5	40.2	31.1	26.7	23.4	18.0	15.0	7.90
1.70V/cell	251.5	228.6	180.6	143.0	102.4	88.5	54.3	40.8	31.5	27.0	23.5	18.3	15.2	7.97
1.67V/cell	255.6	232.3	183.5	144.0	103.3	89.3	54.9	41.0	31.9	27.5	23.5	18.5	15.3	8.06
1.60V/cell	259.2	235.6	186.1	144.6	103.8	89.9	55.4	41.2	32.2	27.8	23.6	18.7	15.5	8.14

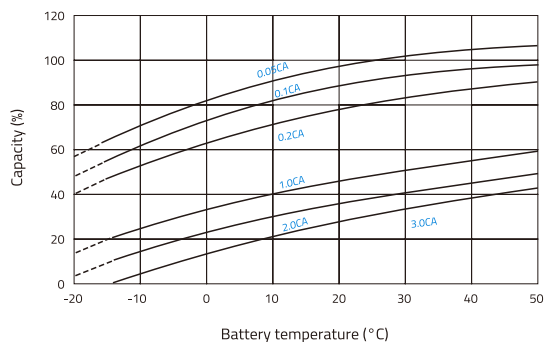
DISCHARGE CHARACTERISTICS



FLOAT CHARGING CHARACTERISTICS



TEMPERATURE IN RELATION TO BATTERY CAPACITY



TEMPERATURE ON LONG TERM FLOAT LIFE

