







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.

# M DIMENSIONS & WEIGHT

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

#### **M** 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	750.0A (5 sec)						
current	7 JU.UA (J SEC)						
Reference capacity	80.00Ah (20hr, 1.75V/cell, 25°C)						
Reference cupacity	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							
Standby use voltage	13.5V ~ 13.8V 25°C						
, 0	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						
temp. range							
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%						
temp.	25°C 100%						
	0°C 86%						
Container material	A.B.S. UL94-HB   UL94-V0 optional						

#### **APPROVALS**

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

# A APPLICATIONS





# f 💿 🗈 in www.fulbat.com







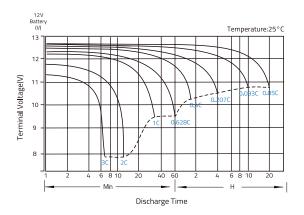
### A CONSTANT CURRENT DISCHARGE (A) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	Зh	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

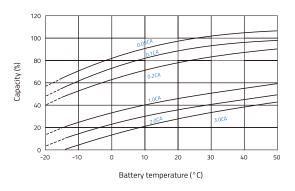
## √ CONSTANT POWER DISCHARGE (W/CELL) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	Зh	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

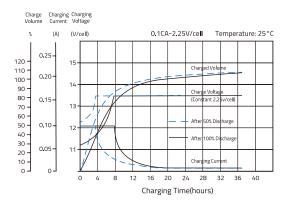
#### **M** DISCHARGE CHARACTERISTICS



#### **M** TEMPERATURE IN RELATION TO BATTERY CAPACITY



#### *M* FLOAT CHARGING CHARACTERISTICS



#### \* TEMPERATURE ON LONG TERM FLOAT LIFE

