# FP12-200

# 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	522±2mm
Width	240±2mm
Total height	224±2mm
Gross weight	59.80kg

204±2



# *√* **TERMINAL**



# **SPECIFICATIONS**

Nominal voltage

Nominal capacity	200.0Ah (10hr)
Design life	10 years at 25°C
Internal resistance	Approx 3.2mΩ
Terminal	T11
Max. discharge	2000.0A (5 sec)
current	
Reference capacity	208.0Ah (20hr, 1.75V/cell, 25°C)
	200.00Ah (10hr, 1.75V/cell, 25°C)
	180.00Ah (5hr, 1.75V/cell, 25°C)
	164.10Ah (3hr, 1.75V/cell, 25°C)
	126.20Ah (1hr, 1.60V/cell, 25°C)
Chargo voltago	

12V (6 cells)

#### Charge voltage

Standby use voltage	13.5V ~ 13.8V 25°C
	Temperature compensation:

-3mV/°C/Cell 14.4V ~ 15.0V 25°C

Cycle use voltage Temperature compensation:

-5mV/°C/Cell

Discharge: -15°C ~ 50°C Operating temp. Charge: -20°C ~ 40°C range Storage: -15°C ~ 40°C

25°C ± 3°C **Nominal operating** 

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%

25°C 100% temp. 0°C 86%

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









Emergency & security

Medical UPS & data center Telecom









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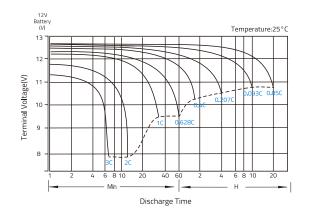
# √ CONSTANT CURRENT DISCHARGE (A) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	287.1	254.0	199.7	178.6	130.6	110.6	67.4	49.4	38.8	33.7	29.7	22.8	18.9	10.0
1.80V/cell	325.8	287.8	225.8	194.4	138.4	114.6	69.6	53.7	41.4	35.4	31.9	24.0	20.0	10.4
1.75V/cell	353.4	311.6	243.8	198.4	143.4	120.2	73.3	54.7	42.2	36.0	32.1	24.1	20.1	10.5
1.70V/cell	376.8	330.9	258.5	202.4	146.2	122.6	74.7	55.8	42.9	36.6	32.3	24.5	20.2	10.6
1.67V/cell	388.7	340.6	265.5	205.3	148.4	124.4	75.8	56.3	43.6	37.4	32.4	24.8	20.5	10.7
1.60V/cell	402.0	351.1	272.4	208.3	150.5	126.2	76.9	56.8	44.1	37.9	32.7	25.2	20.7	10.9

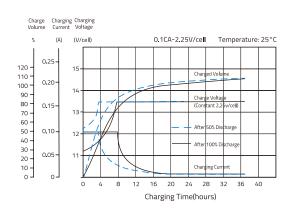
# √ CONSTANT POWER DISCHARGE (W/CELL) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	529.0	480.9	379.9	341.2	251.1	213.9	131.1	96.6	76.1	66.3	58.6	45.3	37.6	20.0
1.80V/cell	591.8	537.9	424.9	368.6	264.3	220.4	134.7	104.4	80.9	69.4	62.7	47.5	39.3	20.7
1.75V/cell	631.6	574.1	453.5	373.2	272.2	230.2	141.3	106.1	82.2	70.4	63.0	47.6	39.7	20.8
1.70V/cell	664.0	603.5	476.8	377.5	275.7	233.6	143.5	107.8	83.3	71.4	63.3	48.3	40.0	21.0
1.67V/cell	674.8	613.3	484.5	380.2	278.2	235.7	145.0	108.3	84.3	72.6	63.4	48.9	40.5	21.3
1.60V/cell	684.2	621.9	491.3	381.8	279.6	237.5	146.2	108.8	84.9	73.3	63.6	49.4	40.9	21.5

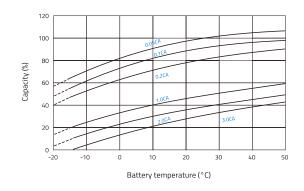
# **⋄** DISCHARGE CHARACTERISTICS



# FLOAT CHARGING CHARACTERISTICS



### √ TEMPERATURE IN RELATION TO BATTERY CAPACITY



# √ TEMPERATURE ON LONG TERM FLOAT LIFE

