FP12-85H Datasheet

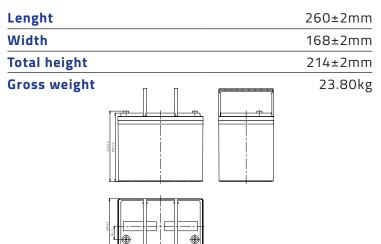






FP Series are general purpose batteries with 10 years design life in float service. With advanced AGM valve regulated technology and high purity raw material, the FP series batteries ensure high performance and reliable standby service life. They have been designed specifically for applications such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

M DIMENSIONS & WEIGHT



A SPECIFICATIONS

Nominal voltage	12V (6 cells)							
Nominal capacity	85.0Ah (20hr)							
Design life	10 years at 25°C							
Internal resistance	Approx 6.2mΩ							
Terminal	Τ6							
Max. discharge	1840.0A (5 sec)							
current	1040.0A (J SEC)							
Reference capacity	85.00Ah (20hr, 1.75V/cell, 25°C)							
herefelice capacity	75.00Ah (10hr, 1.75V/cell, 25°C)							
	65.80Ah (5hr, 1.75V/cell, 25°C)							
	59.60Ah (3hr, 1.75V/cell, 25°C)							
	48.50Ah (1hr, 1.60V/cell, 25°C)							
Charge voltage								
Standby use voltage	2.25V ~ 2.30V 25°C							
514.1457 456 1011466	Temperature compensation:							
	-3mV/°C/Cell							
Cycle use voltage	2.35V ~ 2.40V 25°C							
/ 0	Temperature compensation:							
	-5mV/°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							

M APPROVALS

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

APPLICATIONS





M TERMINAL









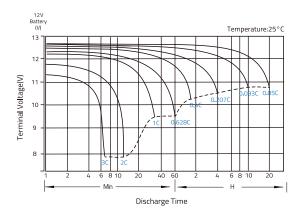
A CONSTANT CURRENT DISCHARGE (A) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	109.8	92.4	80.7	58.1	46.1	37.4	23.3	18.1	14.7	11.9	10.4	8.50	7.08	3.98
1.80V/cell	140.3	111.6	95.4	68.6	53.7	41.9	25.4	19.5	15.7	12.8	11.2	9.02	7.50	4.02
1.75V/cell	154.2	121.9	102.7	71.2	55.7	43.9	26.3	19.9	16.0	13.2	11.5	9.17	7.58	4.06
1.70V/cell	168.0	130.2	107.9	74.1	57.9	45.3	27.4	20.4	16.5	13.5	11.7	9.30	7.65	4.13
1.65V/cell	181.4	138.4	114.6	78.1	59.4	46.8	28.1	21.3	17.0	13.9	12.0	9.45	7.81	4.19
1.60V/cell	196.9	148.1	122.1	82.5	61.9	48.5	29.1	22.0	17.6	14.3	12.2	9.54	7.89	4.21

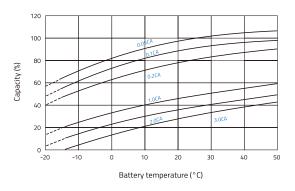
√ CONSTANT POWER DISCHARGE (W/CELL) @25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	Зh	4h	5h	6h	8h	10h	20h
1.85V/cell	204.9	174.2	153.9	111.6	89.3	72.7	45.3	35.4	28.8	23.4	20.6	16.8	14.0	7.97
1.80V/cell	258.3	207.3	179.1	130.1	103.0	80.9	49.2	37.9	30.6	25.1	22.0	17.8	14.8	8.03
1.75V/cell	280.3	224.3	191.1	134.4	106.3	84.4	50.9	38.5	31.2	25.7	22.6	18.1	15.0	8.10
1.70V/cell	301.3	237.7	199.7	139.4	110.3	86.8	52.7	39.5	31.9	26.3	23.0	18.3	15.1	8.24
1.65V/cell	322.8	251.1	211.1	146.4	112.6	89.4	54.1	41.1	33.0	27.0	23.5	18.6	15.4	8.34
1.60V/cell	344.5	265.4	222.6	153.0	116.3	91.8	55.5	42.1	33.9	27.7	23.9	18.8	15.6	8.37

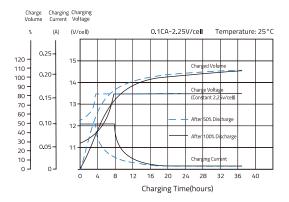
M DISCHARGE CHARACTERISTICS



M TEMPERATURE IN RELATION TO BATTERY CAPACITY



M FLOAT CHARGING CHARACTERISTICS



* TEMPERATURE ON LONG TERM FLOAT LIFE

