

FPH12-35W

Datasheet

FULBAT™
HIGH RATE BATTERY



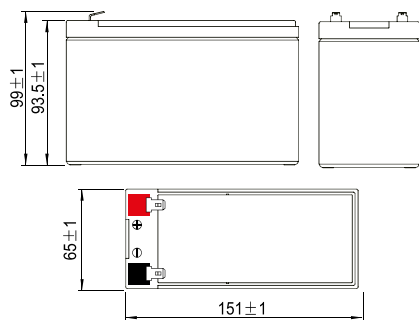
AGM

NON-SPILLABLE

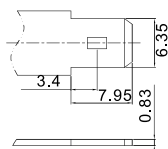
FPH Series are high rate batteries with 5 years design life in float service. With advanced AGM valve regulated technology and high purity raw material, the FPH batteries ensure reliable standby service life and high performance during high current discharge requirements. They have been designed specifically for applications where high current loads are required such as UPS & data centers.

DIMENSIONS & WEIGHT

Length	151±2mm
Width	65±2mm
Total height	99±2mm
Gross weight	2.5kg



TERMINAL



SPECIFICATIONS

Nominal voltage	12V (6 cells)
Nominal rate	35W/cell/1.67V/15min
Nominal capacity	9Ah (20hr)
Design life	5 years at 25°C
Internal resistance	Approx 20.0mΩ
Terminal	T2
Max. discharge current	108A (5 sec)
Reference capacity	9.00Ah (20hr, 1.80V/cell, 25°C) 7.95Ah (10hr, 1.80V/cell, 25°C) 7.66Ah (8hr, 1.80V/cell, 25°C) 7.20Ah (5hr, 1.75V/cell, 25°C) 6.63Ah (3hr, 1.75V/cell, 25°C) 5.46Ah (1hr, 1.67V/cell, 25°C)
Charge voltage (25°C)	
Float	13.5V
Temp. coefficient	-3mV/°C/Cell
Equalization	14.1V ~ 14.4V
Operating temp. range	Discharge: -20°C ~ 55°C Charge: -20°C ~ 40°C Storage: -15°C ~ 50°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 106% 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



UPS
& data center

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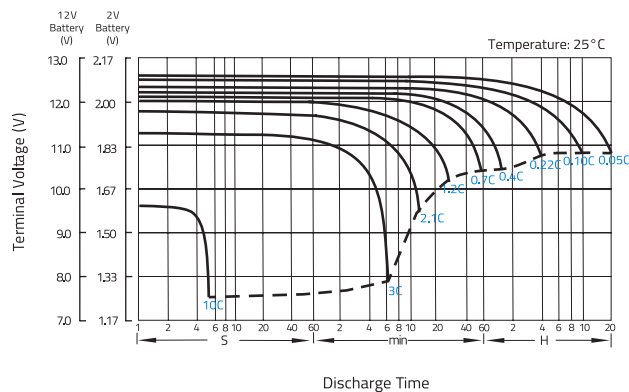
CONSTANT CURRENT DISCHARGE (A) @25°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h
1.85V/cell	24.8	16.5	13.4	10.4	7.75	5.62	4.49	2.66	1.99	1.57	1.31	0.894	0.732
1.80V/cell	28.9	19.5	15.5	12.0	8.76	6.28	4.97	2.89	2.15	1.70	1.41	0.958	0.781
1.75V/cell	31.6	20.9	16.4	12.6	9.16	6.54	5.16	2.98	2.21	1.74	1.44	0.975	0.793
1.70V/cell	34.2	22.3	17.4	13.3	9.56	6.79	5.35	3.07	2.27	1.78	1.48	0.992	0.806
1.67V/cell	35.7	23.2	17.9	13.6	9.80	6.94	5.46	3.13	2.31	1.81	1.50	1.00	0.813
1.60V/cell	39.4	25.1	19.2	14.5	10.3	7.29	5.72	3.26	2.39	1.87	1.54	1.03	0.830

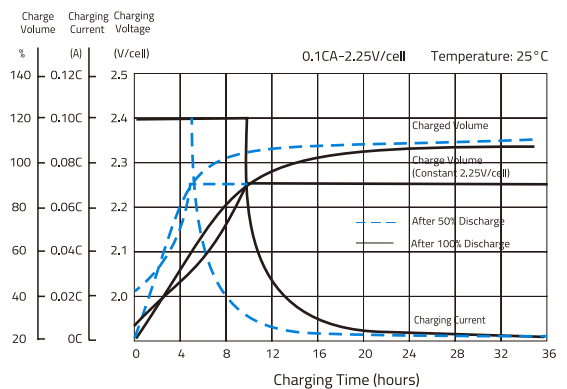
CONSTANT POWER DISCHARGE (W/CELL) @25°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h
1.85V/cell	47.3	31.7	26.6	20.1	15.0	10.9	8.73	5.19	3.90	3.09	2.58	1.77	1.45
1.80V/cell	54.5	37.0	30.5	22.9	16.8	12.1	9.60	5.62	4.20	3.32	2.77	1.89	1.54
1.75V/cell	58.7	39.2	32.9	23.8	17.4	12.5	9.88	5.76	4.30	3.39	2.83	1.92	1.57
1.70V/cell	62.7	41.3	34.3	24.8	18.0	12.9	10.2	5.91	4.40	3.47	2.88	1.95	1.59
1.67V/cell	64.9	42.5	35.0	25.3	18.4	13.1	10.3	5.99	4.45	3.51	2.91	1.97	1.60
1.60V/cell	70.7	45.5	36.9	26.6	19.2	13.6	10.7	6.20	4.59	3.60	2.99	2.01	1.63

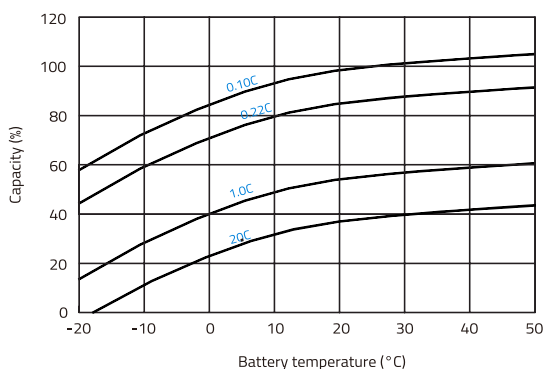
DISCHARGE CHARACTERISTICS



FLOAT CHARGING CHARACTERISTICS



TEMPERATURE IN RELATION TO BATTERY CAPACITY



TEMPERATURE ON LONG TERM FLOAT LIFE

