

FPH12-35W

Datasheet

FULBAT[®]
INDUSTRIAL BATTERY



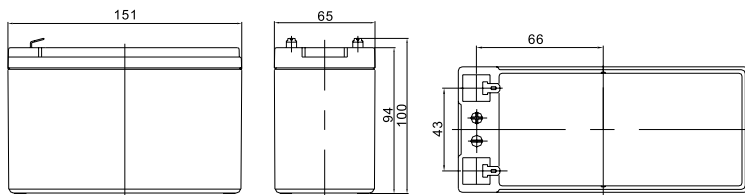
AGM

NON-SPILLABLE

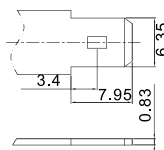
FPH Series are high rate batteries with 8 years design life in float service. With advanced AGM valve regulated technology and high purity raw material, the FPH batteries ensure reliable standby service life and high performance during high current discharge requirements. They have been designed specifically for applications where high current loads are required such as UPS & data centers.

DIMENSIONS & WEIGHT

| | |
|---------------------|---------|
| Length | 151±2mm |
| Width | 65±2mm |
| Total height | 100±2mm |
| Gross weight | 2.6kg |



TERMINAL



SPECIFICATIONS

| | |
|--------------------------------------|---|
| Nominal voltage | 12V (6 cells) |
| Nominal rate | 35W/cell/1.67V/15min |
| Nominal capacity | 9Ah (20hr) |
| Design life | 8 years at 25°C |
| Internal resistance | Approx 18mΩ |
| Terminal | T2 |
| Max. discharge current | 90A (5 sec) |
| Reference capacity | 9.00Ah (20hr, 1.80V/cell, 25°C) 8.5Ah (10hr, 1.80V/cell, 25°C) |
| Charge voltage | 6.48V ~ 6.96V 25°C |
| Standby use voltage | Temperature compensation: -3mV/°C/Cell |
| Cycle use voltage | 7.30V ~ 7.40V 25°C Temperature compensation: -4mV/°C/Cell |
| Operating temp. range | Discharge: -20°C ~ 60°C Charge: 0°C ~ 50°C Storage: -20°C ~ 60°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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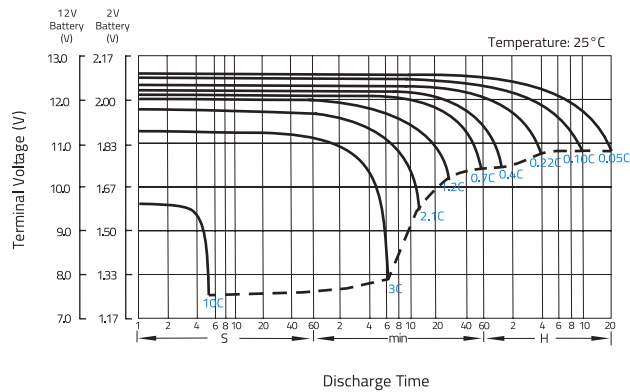
CONSTANT CURRENT DISCHARGE (A) @25°C

| F.V/Time | 3min | 5min | 8min | 10min | 15min | 20min | 30min | 1h | 1h30 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V/cell | 46.94 | 41.26 | 32.97 | 28.26 | 20.85 | 16.39 | 11.68 | 6.548 | 4.642 |
| 1.67V/cell | 42.60 | 37.44 | 30.15 | 26.05 | 19.50 | 15.47 | 11.06 | 6.241 | 4.443 |
| 1.70V/cell | 40.76 | 35.83 | 28.95 | 25.11 | 18.90 | 15.06 | 10.79 | 6.105 | 4.360 |
| 1.75V/cell | 37.75 | 33.19 | 26.97 | 25.53 | 17.85 | 14.30 | 10.34 | 5.900 | 4.228 |
| 1.80V/cell | 34.58 | 30.40 | 24.93 | 21.95 | 16.95 | 13.63 | 9.889 | 5.679 | 4.078 |
| 1.85V/cell | 29.57 | 25.99 | 21.24 | 18.63 | 14.54 | 11.84 | 8.745 | 5.133 | 3.730 |

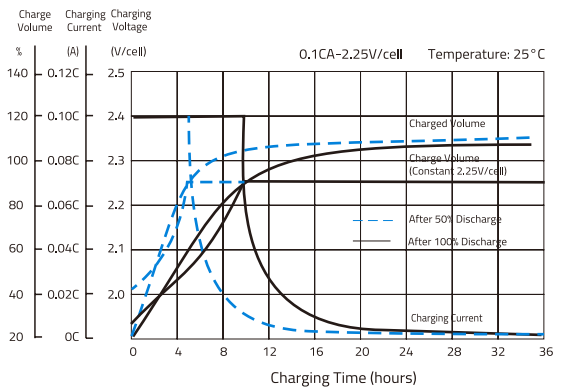
CONSTANT POWER DISCHARGE (W/CELL) @25°C

| F.V/Time | 3min | 5min | 8min | 10min | 15min | 20min | 30min | 1h | 1h30 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V/cell | 84.36 | 74.16 | 59.46 | 51.16 | 38.10 | 30.17 | 21.58 | 12.28 | 8.787 |
| 1.67V/cell | 77.51 | 68.13 | 47.84 | 47.84 | 36.00 | 28.79 | 20.78 | 11.82 | 8.488 |
| 1.70V/cell | 74.84 | 65.79 | 46.42 | 46.42 | 35.25 | 28.18 | 20.29 | 11.63 | 8.356 |
| 1.75V/cell | 70.00 | 61.53 | 44.05 | 44.05 | 33.60 | 27.11 | 19.65 | 11.31 | 8.140 |
| 1.80V/cell | 64.98 | 57.12 | 41.53 | 41.53 | 32.10 | 26.04 | 19.00 | 10.98 | 7.925 |
| 1.85V/cell | 56.46 | 49.63 | 40.62 | 35.68 | 27.90 | 22.82 | 16.91 | 9.993 | 7.278 |

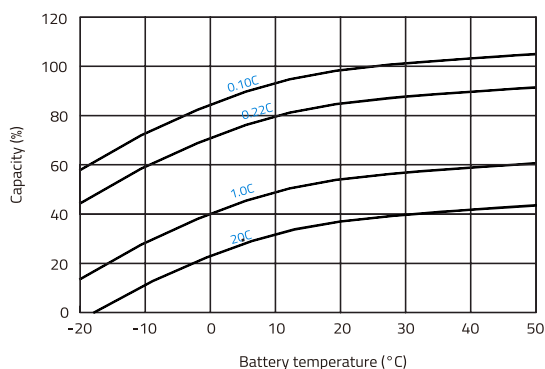
DISCHARGE CHARACTERISTICS



FLOAT CHARGING CHARACTERISTICS



TEMPERATURE IN RELATION TO BATTERY CAPACITY



TEMPERATURE ON LONG TERM FLOAT LIFE

