

HTL Series Battery

SPACEFLIGHT HTL series battery is 2V Long Life lead acid battery which has been designed with special heavy duty grids and thicker plates which makes the battery provides consistent performance and longer service life at a critical application.

Applications

- Uninterruptible power supplies
- Telecommunication systems
- Communication equipments
- Emergency Power Systems
- Security systems
- Solar/Wind systems

General Features

- 20 years designed floating life(25°C)
- Non-spillable construction
- Sealed and maintenance-free
- High reliability and stability
- High purity raw material: long life and low self-discharge

Standards

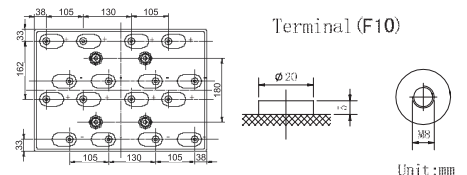
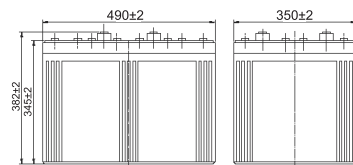
- Compliance with IEC, BS, JIS and EU standards
- UL, CE Certified
- ISO45001,ISO9001 and ISO14001 certified production facilities

Specifications

| | | |
|---------------------------------|----------------------------------|---|
| Rated Voltage | 2V | |
| Nominal Capacity | 2500Ah | (C ₁₀ ,1.8V) |
| Approx Weight | 140kg±3%(308.6lbs) | |
| Terminal | F10 | |
| Rated Capacity(25°C) | 2500 Ah | (10hr,250A,1.80V) |
| | 2250 Ah | (5hr,450A,1.75V) |
| | 1950 Ah | (3hr,650A,1.70V) |
| | 1520 Ah | (1hr,1520A,1.60V) |
| Max.Discharge Current | 12500A(5s) | |
| Max.Charge Current | 625A | |
| Internal Resistance(25°C) | Approx 0.5mΩ | |
| Operating Temp.Range | Discharge | -20~60°C(-4~140°F) |
| | Charge | -10~50°C(14~122°F) |
| | Storage | -20~60°C(-4~140°F) |
| Nominal operating temperature | 25±5°C | |
| Charge Voltage @25°C(77°F) | Cycle Use | Initial Charging Current less than 625A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -30mV/°C |
| | Standby Use | Initial Charging Current less than 625A. Voltage 2.25V~2.3V at 25°C(77°F)Temp. Coefficient -20mV/°C |
| Temperature effects on capacity | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| | -15°C (5°F) | 65% |
| Self Discharge(25°C) | Capacity after 3 months storage | 91% |
| | Capacity after 6 months storage | 82% |
| | Capacity after 12 months storage | 65% |



Dimensions unit:mm



| | |
|------------------|------------------------|
| Length | 490±2mm (19.3 inches) |
| Width | 350±2mm (13.8 inches) |
| Container Height | 345±2mm (13.6 inches) |
| Total Height | 382±2mm (15.04 inches) |

Battery Construction

| Component | Positive plate | Negative plate | Container | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------------------------|--------------|----------|------------|---------------|
| Raw material | Lead dioxide | Lead | ABS(UL94-HB) or FR(UL94-V0) | Rubber | Copper | Fiberglass | Sulfuric acid |

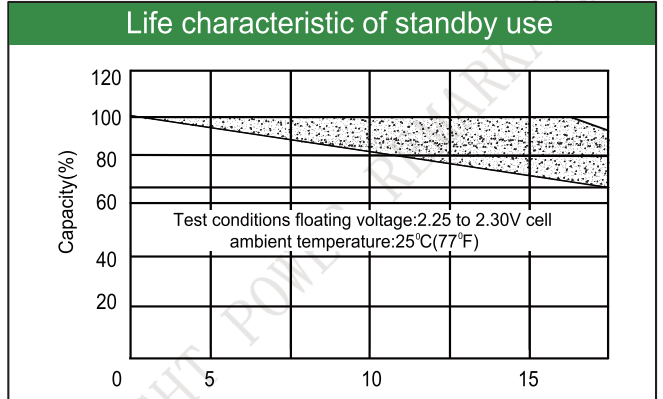
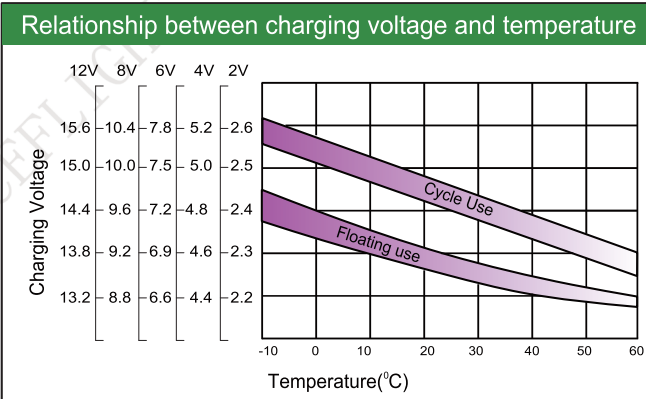
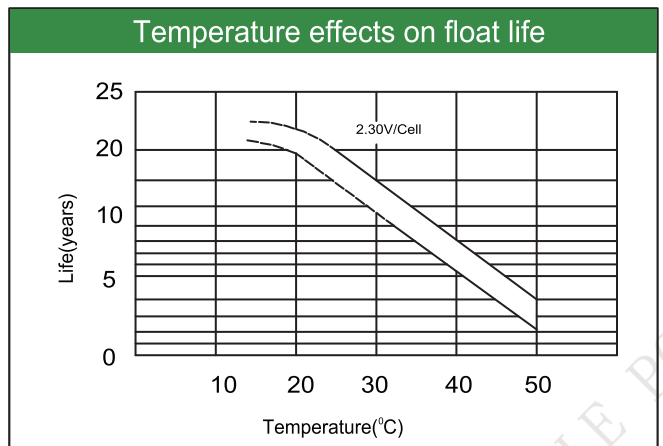
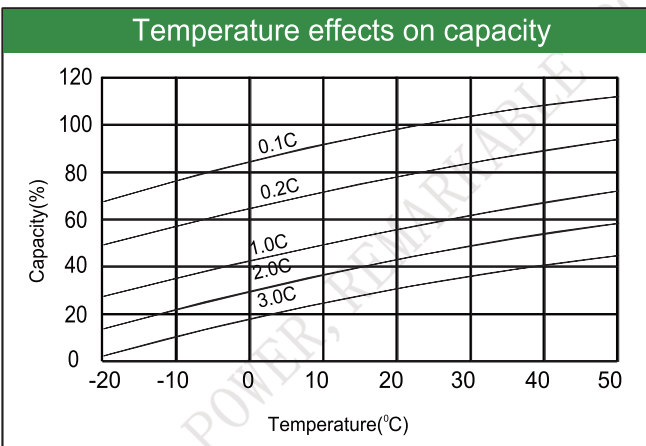
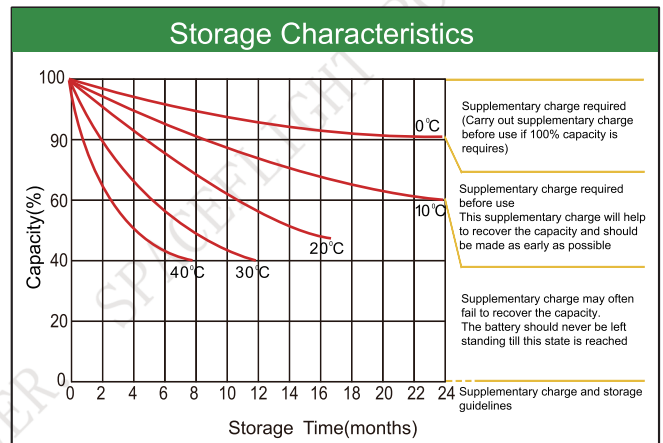
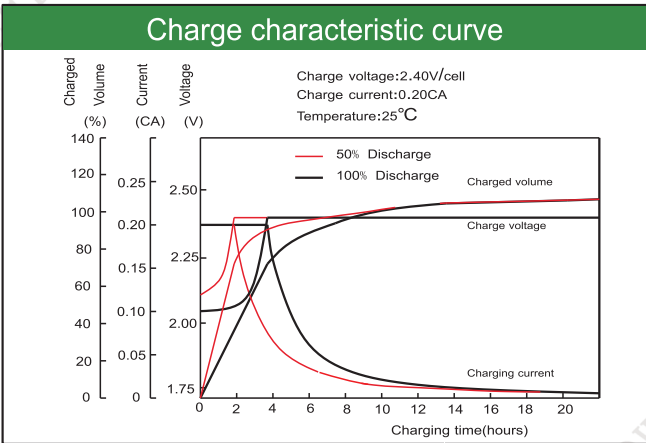
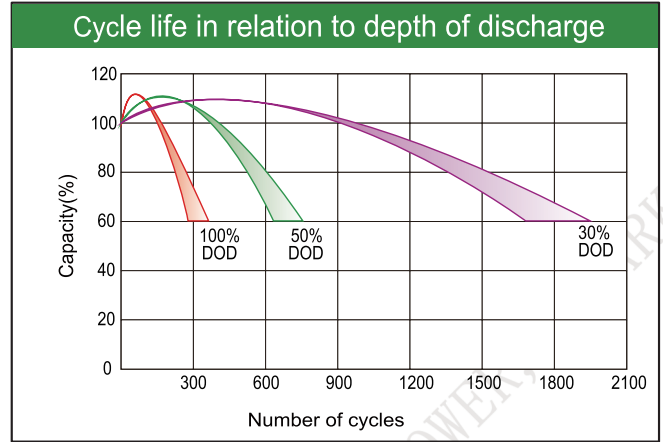
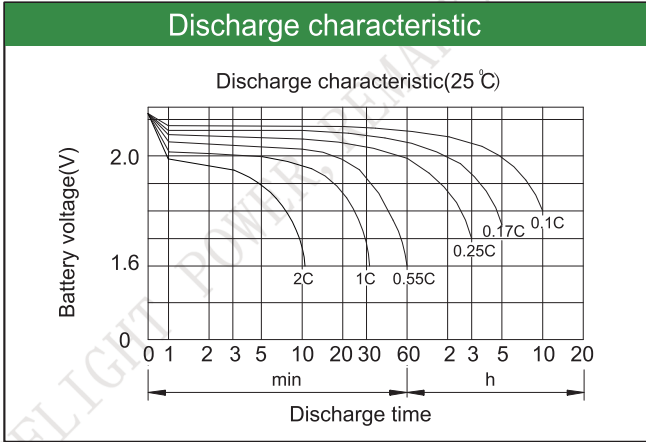
Constant Current Discharge (Amperes) at 25°C(77°F)

| E.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 3h | 5h | 10h |
|----------|------|-------|-------|-------|-------|------|-----|-----|-----|
| 1.60V | / | 4279 | 3783 | 2482 | 1799 | 1520 | 675 | 472 | 262 |
| 1.65V | / | 4056 | 3600 | 2374 | 1725 | 1493 | 665 | 466 | 260 |
| 1.70V | / | 3827 | 3411 | 2257 | 1649 | 1438 | 650 | 458 | 257 |
| 1.75V | / | 3586 | 3219 | 2140 | 1569 | 1395 | 538 | 450 | 254 |
| 1.80V | / | 3348 | 3025 | 2019 | 1458 | 1329 | 623 | 440 | 250 |

Constant Power Discharge (Watts/cell) at 25°C(77°F)

| E.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------|------|-------|-------|-------|-------|------|------|------|-----|
| 1.60V | / | 6953 | 6256 | 4068 | 2931 | 2540 | 1696 | 1121 | 792 |
| 1.65V | / | 6831 | 6047 | 3957 | 2881 | 2499 | 1679 | 1113 | 784 |
| 1.70V | / | 6611 | 5881 | 3900 | 2852 | 2484 | 1617 | 1099 | 771 |
| 1.75V | / | 6361 | 5729 | 3787 | 2776 | 2464 | 1548 | 1090 | 769 |
| 1.80V | / | 6120 | 5566 | 3715 | 2671 | 2444 | 1474 | 1084 | 752 |

Note: The above characteristics data are average values obtained Within three charge/discharge cycles not the minimum.



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