

VRLA Rechargeable Battery

UPS12400XW Standard Type

FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- The battery is designed with very lower resistance and exceeding high power performance.
- Flame-arrestor is installed to ensure safety
- Absorbent Glass Mat technology for efficient gas recombination



APPLICATION

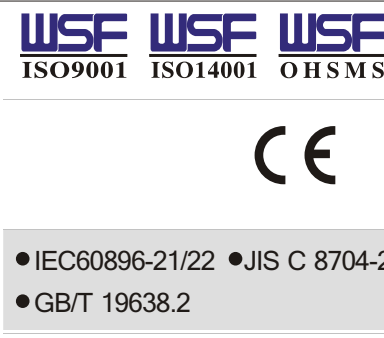
- UPS
- Cable TV
- Golf-Carts
- Telecom
- Power station
- Marine

SPECIFICATIONS

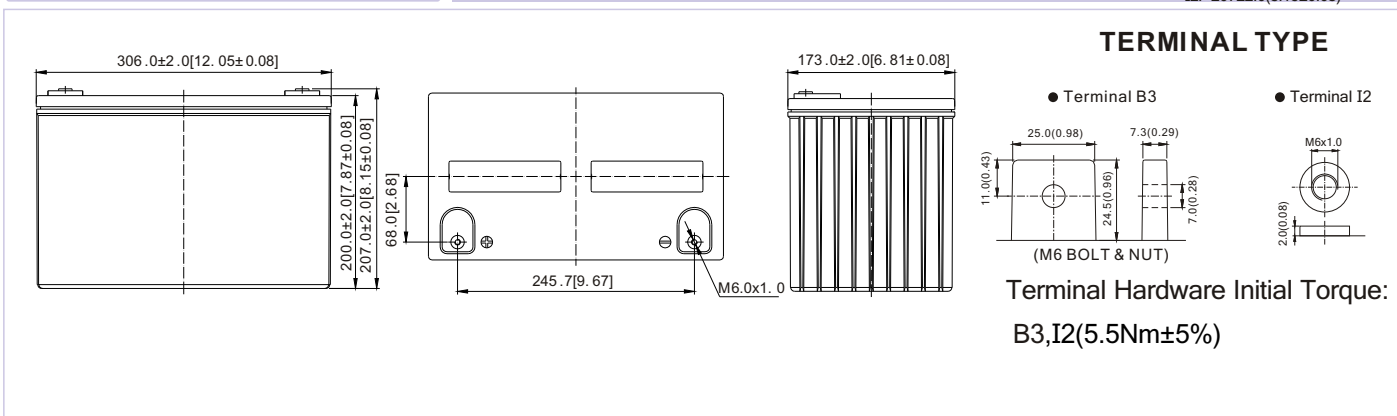
| | |
|-----------------------------|---|
| Nominal Voltage | 12V |
| Nominal Capacity | 400W @ 15 min-rate to 1.60V per cell @ 25°C(77°F) |
| Approx. Weight | 30.2Kg(66.6lbs.) |
| Terminals | I2, B3 (Fitting M6 bolt & nut) is optional |
| Max. Charge Current | 29.5 A |
| Short Circuit Current | 2450 A |
| Operating Temperature Range | Charge 0°C~50°C(32°F~122°F) Discharge -20°C~60°C(-4°F~140°F) Storage -20°C~50°C(-4°F~122°F) |
| Self Discharge | < 3% per month (25°C) |
| Internal Resistance | ≤ 3.5mΩ (Fully Charged) |

CONTAINER MATERIAL

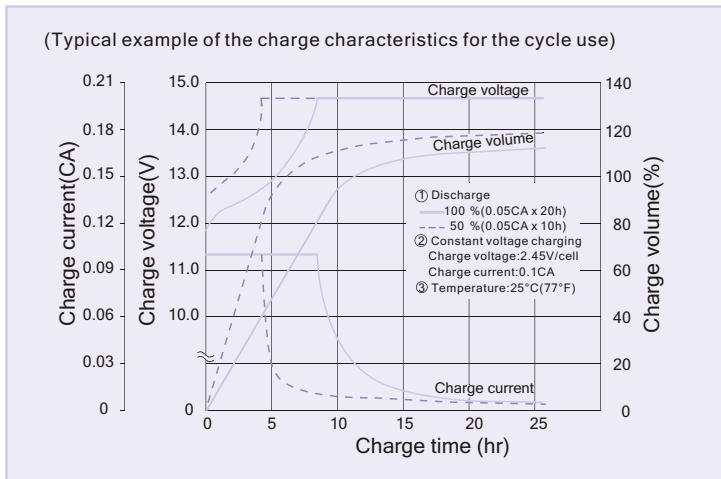
- Standard: PP(UL 94-HB)
Model Name: UPS12400XW
- Optional: Flame Retardant PP(UL 94-V0)
Model Name: UPS12400XWFR



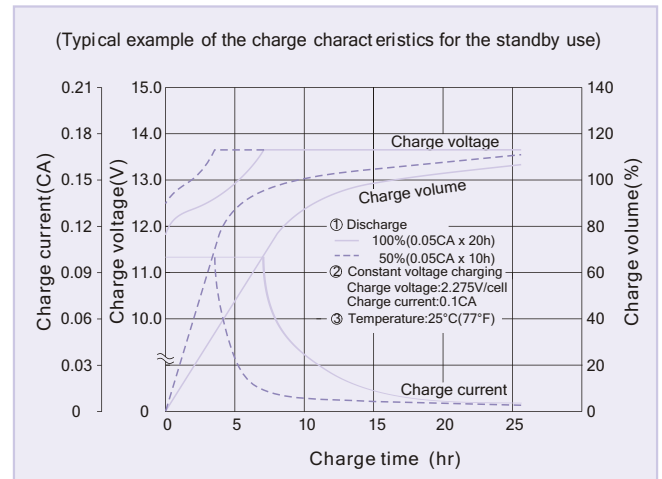
| OUTER DIMENSIONS mm(inch) | Length (L) | Width (W) | Container Height (H) | Total Height (TH) |
|---------------------------|---------------------|--------------------|----------------------|--|
| | 306±2.0(12.05±0.08) | 173±2.0(6.81±0.08) | 200±2.0(7.87±0.08) | B3: 230±2.0(9.06±0.08) I2: 207±2.0(8.15±0.08) |



UPS12400XW(UPS12400XWFR) Charging Characteristics



Battery Charging Characteristics



Charging Procedure

| Application | Charging method | Charging Voltage at 25°C (V/cell) | Temperature compensation coefficient of charging voltage (mV/°C/cell) | Max. charging current (CA) | Charging time 0.1CA, 25°C (h) | | Temp (°C) |
|--------------------------|---|-----------------------------------|---|----------------------------|-------------------------------|---------------|--------------------|
| | | | | | 100% discharge | 50% discharge | |
| For standby power Source | Constant voltage & Constant current charging (with current restriction) | 2.25~2.30 | -3 | 0.3 | 24 | 20 | 0~50 (32~122°F) |
| For cycle service | | 2.40~2.50 | -4 | 0.3 | 16 | 10 | |

Constant power discharge characteristics at 25 °C/77 °F Unit: W

| Discharge F.V. / Time | 5 Min | 10 Min | 15 Min | 20 Min | 25 Min | 30 Min | 40 Min | 50 Min | 60 Min | 90 Min |
|-----------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 10.8V | 3463 | 2545 | 2114 | 1768 | 1532 | 1345 | 1083 | 909 | 788 | 560 |
| 10.5V | 3882 | 2732 | 2236 | 1836 | 1578 | 1380 | 1105 | 928 | 800 | 569 |
| 10.2V | 4140 | 2844 | 2313 | 1884 | 1609 | 1402 | 1121 | 939 | 809 | 575 |
| 9.9V | 4308 | 2932 | 2365 | 1920 | 1634 | 1418 | 1134 | 949 | 817 | 580 |
| 9.6V | 4436 | 2989 | 2400 | 1945 | 1654 | 1431 | 1145 | 957 | 823 | 583 |

Constant current discharge characteristics at 25 °C/77 °F Unit: A

| Discharge F.V. / Time | 5 Min | 10 Min | 15 Min | 20 Min | 25 Min | 30 Min | 40 Min | 50 Min | 60 Min | 90 Min |
|-----------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 10.8V | 322 | 223 | 183 | 151 | 129 | 112 | 90 | 76 | 66.2 | 47.0 |
| 10.5V | 353 | 241 | 193 | 158 | 134 | 117 | 92 | 78 | 67.2 | 47.8 |
| 10.2V | 377 | 251 | 200 | 162 | 138 | 119 | 94 | 79 | 68.0 | 48.3 |
| 9.9V | 391 | 259 | 206 | 166 | 140 | 121 | 96 | 80 | 68.7 | 48.8 |
| 9.6V | 403 | 263 | 209 | 168 | 142 | 122 | 97 | 80 | 69.1 | 49.1 |

All data and artworks shall be changed without prior notice. BB reserves the right to explain and update the information contained hereinto.

For operation, please refer to the instruction from technical manual.

SC(for akku) Trial A/0 REV. Mar. 2017

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