

HF12-390WP-X

FEATURES

- Advanced pure lead technology
- The battery is designed for high rate usage
- Excellent consistency and reliability
- Longer float life
- Special design to avoid thermal runaway
- 4-fold terminal sealing to avoid leaking
- Strongest High Rated Discharge Performance
- Maintenance-free operation
- Low self-discharge rate

APPLICATION

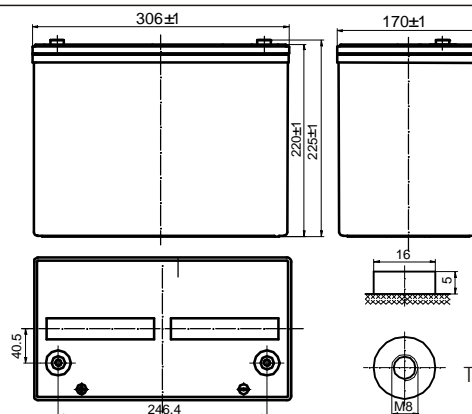
- UPS Equipment (High rate)
- High power backup supply
- Emergency power supply
- Starting system
- Power tools
- Emergency lighting
- Electrical starting

SPECIFICATIONS

| | |
|---|--|
| Nominal Voltage | 12 V |
| Number of cell | 6 |
| Nominal Capacity | 390W/cell @15 min rate F.V.(1.67V/cell) |
| Approx. Weight | 28.5Kg(62.8 lbs) |
| Internal Resistance | $\leq 4.0\text{m}\Omega$ (Fully Charged, 25°C) |
| Max. Discharge Current | 810 A (5 sec.) |
| Max. Charge Current | 27 A |
| Operating Temperature Range | Charge : -10 °C~60 °C Discharge : -20 °C~60 °C Storage : -10 °C~60 °C |
| Nominal Operating Temperature Range | 25 ± 5 °C |
| Container Material | ABS(UL94-HB)&Flammability resistance of(UL94-V0) can be available upon request. |
| Self Discharge | 3% of capacity declined per month at 20 °C (average) |
| Charge Methods: Constant Voltage Charge (25 °C) | |
| Cycle use | 2.40-2.45VPC |
| Temperature compensation | -30mV/°C |
| Standby use | 2.20-2.30VPC |
| Temperature compensation | -20mV/°C |

Dimensions

| | SI Units | English Units |
|--------------|----------|---------------|
| Length | 306mm | 12.05 inch |
| Width | 170mm | 6.69 inch |
| Height | 220mm | 8.66 inch |
| Total Height | 225mm | 8.86 inch |



Constant Current Discharge (Amperes at 25 °C)

| End Point Volts/cell | 3 m in | 5 min | 10min | 15 m in | 20 min | 30 min |
|-------------------------|--------|-------|-------|---------|--------|--------|
| 1.60 | 422 | 347 | 275 | 223 | 176 | 136 |
| 1.67 | 390 | 324 | 258 | 213 | 167 | 128 |
| 1.70 | 377 | 312 | 247 | 205 | 159 | 123 |
| 1.75 | 365 | 300 | 236 | 197 | 153 | 117 |
| 1.80 | 343 | 286 | 227 | 187 | 146 | 111 |

Constant Power Discharge (Watts per Cell at 25 °C)

| End Point Volts/cell | 3 m in | 5 min | 10min | 15 m in | 20 min | 30 min |
|-------------------------|--------|-------|-------|---------|--------|--------|
| 1.60 | 818 | 654 | 497 | 395 | 303 | 235 |
| 1.67 | 773 | 615 | 477 | 390 | 289 | 225 |
| 1.70 | 738 | 585 | 463 | 365 | 280 | 216 |
| 1.75 | 691 | 561 | 445 | 348 | 267 | 209 |
| 1.80 | 655 | 538 | 428 | 333 | 257 | 200 |

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

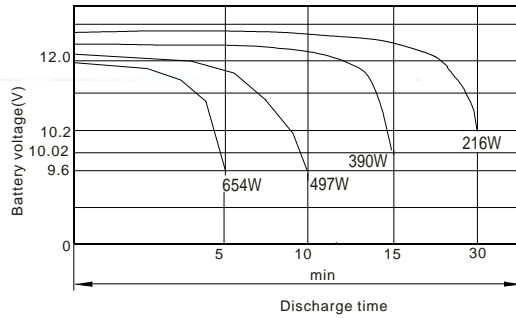
All data shall be changed without prior notice, VISION reserves the right to explain and update the information contained hereinto.



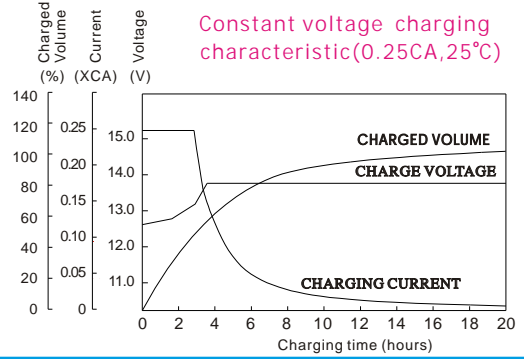
Terminal torque : 12.4Nm

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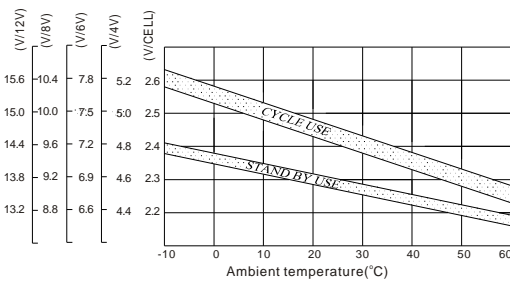
Discharge characteristic (25°C)



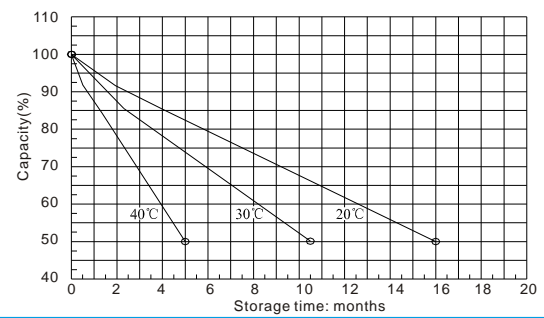
Constant voltage charging characteristic (0.25CA, 25°C)



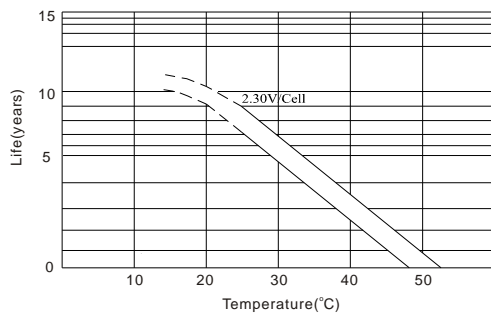
Relationship between charging voltage and temperature



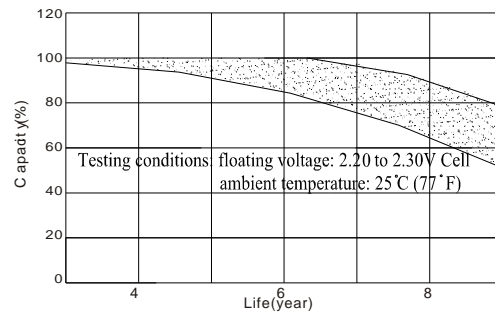
Self-discharge characteristic



Temperature effects on float life



Life characteristic of standby use



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