

## JH12-380W



### Applications

- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Emergency lighting、Auto control system
- › Solar/wind generating storage cyclic
- › Other general purpose

### Specification

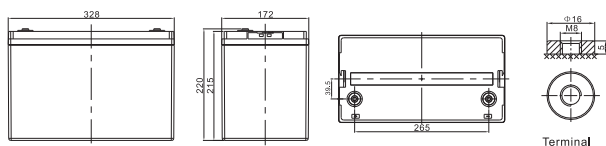
|                        |                                                 |
|------------------------|-------------------------------------------------|
| Nominal Voltage        | 12V                                             |
| Nominal Capacity       | 100Ah (380W@15min-rate to 1.67V per cell @25℃)  |
| Design life            | 15years                                         |
| Terminal               | M8                                              |
| Approx. Weight         | Approx 30.5kg (67.3lbs)                         |
| Container Material     | ABS (UL94-HB, UL94-V0 Optional)                 |
| Rated Capacity         | 100Ah 20Hour Rate (5.00A to 10.8V)              |
|                        | 94.4Ah 10Hour Rate (9.44A to 10.8V)             |
|                        | 65.9Ah 1Hour Rate (65.9A to 10.5V)              |
| Internal resistance    | Full charged at 25℃: 5.00 mΩ                    |
| Max. Discharge Current | 1000A(5S)                                       |
| Operating Temperature  | Discharge: -20 ~50℃ (-4 ~ 122°F)                |
|                        | Charge: -20 ~50℃ (-4 ~ 122°F)                   |
|                        | Storage: -20 ~50℃ (-4 ~ 122°F)                  |
| Charge current:        | Max. 30.0A ; Recom.10.0A                        |
| Charge Method (25℃)    | Float Charge:13.7-13.9V,recom.13.8V(-18mV/℃)    |
|                        | Equalize charge:13.8-14.1V,recom.14.1V(-24mV/℃) |
|                        | Cycle charge:14.4-15.0V,recom.14.7V(-30mV/℃)    |
| Self discharge         | 3% of capacity declined per month at 25℃        |

### General Features

- › High corrosion resistant performance: Pb-Ca multi-alloy grid
- › High energy density and power density
- › Optimized capability of instant high-current discharging
- › Excellent charge acceptance ability
- › Excellent deep cycle discharge capability
- › Strong high and low temperature performance
- › Precision sealing technology
- › Long life



Dimension: 328(L)×172(W)×215(H)×220(TH) Unit: mm



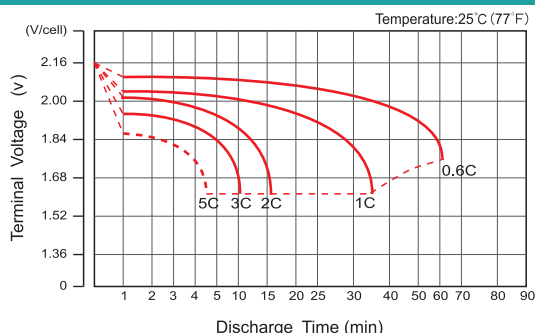
### Constant Current Discharge Characteristics Unit: A (25℃, 77°F)

| F.V/Time | 5min | 8min | 10min | 15min | 20min | 30min | 60min | 90min |
|----------|------|------|-------|-------|-------|-------|-------|-------|
| 1.60V    | 342  | 299  | 270   | 210   | 171   | 126   | 73.0  | 52.4  |
| 1.67V    | 310  | 274  | 249   | 196   | 161   | 119   | 69.6  | 50.2  |
| 1.70V    | 297  | 263  | 241   | 190   | 156   | 117   | 68.2  | 49.3  |
| 1.75V    | 274  | 245  | 225   | 180   | 149   | 112   | 65.9  | 47.7  |
| 1.80V    | 251  | 227  | 210   | 170   | 142   | 107   | 63.5  | 46.2  |
| 1.85V    | 216  | 193  | 178   | 146   | 123   | 94.5  | 57.4  | 42.1  |

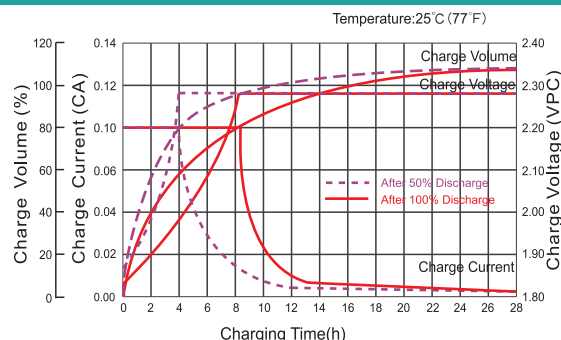
### Constant Power Discharge Characteristics Unit: W/cell (25℃, 77°F)

| F.V/Time | 5min | 8min | 10min | 15min | 20min | 30min | 60min | 90min |
|----------|------|------|-------|-------|-------|-------|-------|-------|
| 1.60V    | 628  | 556  | 508   | 401   | 329   | 245   | 137   | 99.1  |
| 1.67V    | 584  | 522  | 479   | 380   | 314   | 235   | 132   | 95.8  |
| 1.70V    | 565  | 506  | 466   | 371   | 307   | 230   | 130   | 94.5  |
| 1.75V    | 530  | 478  | 442   | 355   | 295   | 223   | 126   | 91.9  |
| 1.80V    | 494  | 449  | 418   | 339   | 284   | 215   | 122   | 89.4  |
| 1.85V    | 430  | 388  | 359   | 295   | 249   | 192   | 111   | 82.2  |

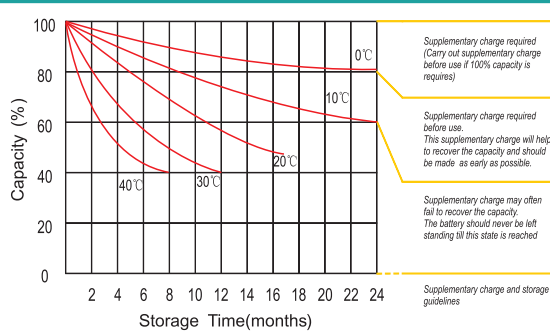
**Discharge Characteristics Curve**



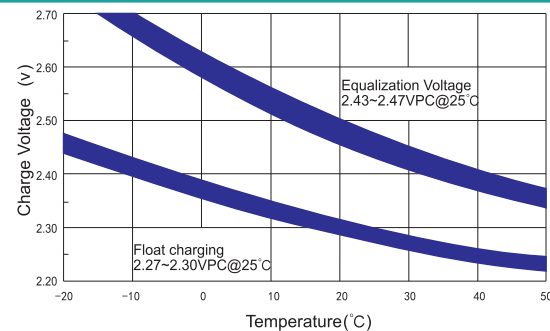
**Charge Characteristic Curve For Standby Use**



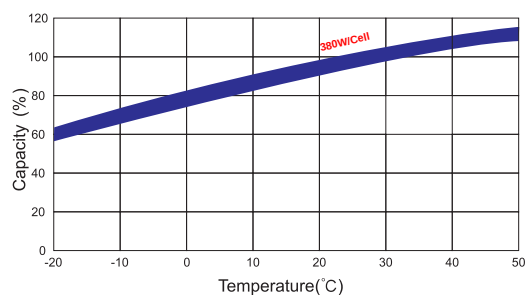
**Storage Characteristics**



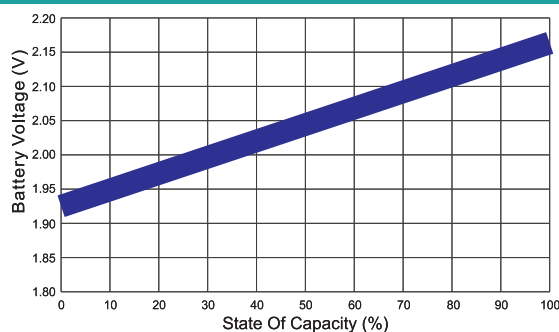
**Relationship Between Charging Voltage And Temperature**



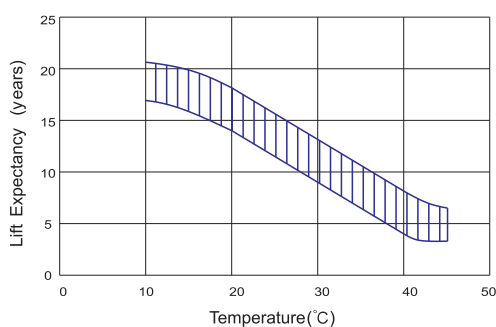
**Temperature Effects On Capacity**



**Relationship of OCV And State of Charge(20°C)**



**Effect Of Temperature On Long Term Life**



**Life Characteristics Of Standby Use**

