

**HTL Pro High Temperature Deep Cycle GEL Battery**

**HTL6-250**

The HTL Pro solid state deep cycle gel battery updated from HTL series and adopts the advanced developed nano gel electrolyte with **more** super-C additive plus **+2% thicker heavy duty plates** design inside. It has a **longer service life** even deep cycle discharge use and provide optimum and reliable service under extreme condition such as high temperature and frequent power failure, thus it is highly suited for tropical area in outdoor applications such as Telecom BTS stations and Off-grid PV system.

|                      |                          |                          |                      |
|----------------------|--------------------------|--------------------------|----------------------|
| <b>6V</b><br>Voltage | <b>250Ah</b><br>Capacity | <b>Gel</b><br>Technology | <b>Deep</b><br>Cycle |
|----------------------|--------------------------|--------------------------|----------------------|



**GENERAL FEATURES**

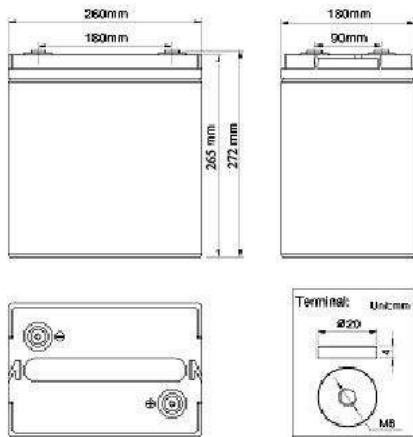
- Able to operate at -40 ~ 60°C
- Integrated design to ensure the best uniformity and reliability
- Longer life and higher stability  
**1750 cycles @ 50% DOD**
- **More** Super-C additives: Deep discharge recovery capability.

**APPLICATIONS**

- BTS Stations
- Solar & Wind energy system
- UPS system
- Telecom systems
- Wheel chair, Golf cart

**DIMENSIONS & WEIGHT**

|                   |         |
|-------------------|---------|
| Length (mm)       | 260±1   |
| Width (mm)        | 180±1   |
| Height (mm)       | 265±1   |
| Total Height (mm) | 272±1   |
| Weight (kg)       | 34.7±3% |



**TECHNICAL SPECIFICATIONS**

|  |                            |   |
|--|----------------------------|---|
| Nominal Voltage                                    |                            | 6V (3 cells per unit)                                       |
| Design Floating Life @25°C                         |                            | 20 Years  |
| Nominal Capacity @25°C (20 hour rate@12.50A, 5.4V) |                            | 250Ah   |
| Capacity @25°C                                     | 10hour rate (22.5A, 5.4V)  | 225Ah   |
|  | 5 hour rate (39.8A, 5.25V) | 199Ah   |
|  | 1 hour rate (138.9A, 4.8V) | 138.9Ah   |
| Internal Resistance                                | Full Charged Battery@25°C  | ≤2.5mΩ  |
| Ambient Temperature                                | Discharge                  | -25°C~60°C  |
|  | Charge                     | -25°C~60°C  |
|  | Storage                    | -25°C~60°C  |
| Max. Discharge Current@25°C                        |                            | 750A(5s)  |
| Capacity affected by Temperature (10 hour)         | 40°C                       | 108%  |
|  | 25°C                       | 100%  |
|  | 0°C                        | 90%   |
|  | -15°C                      | 70%   |
| Self-Discharge@25°C per Month                      |                            | 3%  |
| Charge (Constant Voltage) @25°C                    | Standby Use                | Initial Charging Current Less than 50A<br>Voltage 6.8-6.9V  |
|  | Cycle Use                  | Initial Charging Current Less than 50A<br>Voltage 7.2-7.45V |

**BATTERY DISCHARGE TABEL**

**Discharge Constant Current per Cell (Amperes at 25°C)**

| F.V/Time | 15min | 30min | 45min | 1h    | 2h   | 3h   | 5h   | 8h   | 10h  | 20h   | 100h |
|----------|-------|-------|-------|-------|------|------|------|------|------|-------|------|
| 1.60V    | 321.8 | 204.9 | 151.3 | 138.9 | 88.1 | 61.9 | 42.1 | 27.8 | 24.8 | 13.50 | 3.00 |
| 1.65V    | 315.9 | 201.2 | 148.5 | 136.4 | 86.5 | 60.8 | 41.3 | 27.3 | 24.3 | 13.25 | 2.94 |
| 1.70V    | 310.1 | 197.4 | 145.8 | 133.8 | 84.9 | 59.6 | 40.5 | 26.8 | 23.9 | 13.00 | 2.89 |
| 1.75V    | 304.2 | 193.7 | 143.0 | 131.3 | 83.3 | 58.5 | 39.8 | 26.3 | 23.4 | 12.75 | 2.83 |
| 1.80V    | 292.5 | 186.3 | 137.5 | 126.3 | 80.1 | 56.3 | 38.3 | 25.3 | 22.5 | 12.50 | 2.78 |

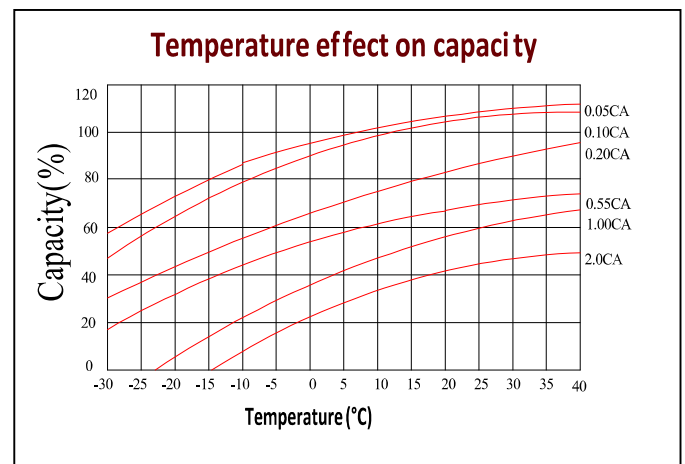
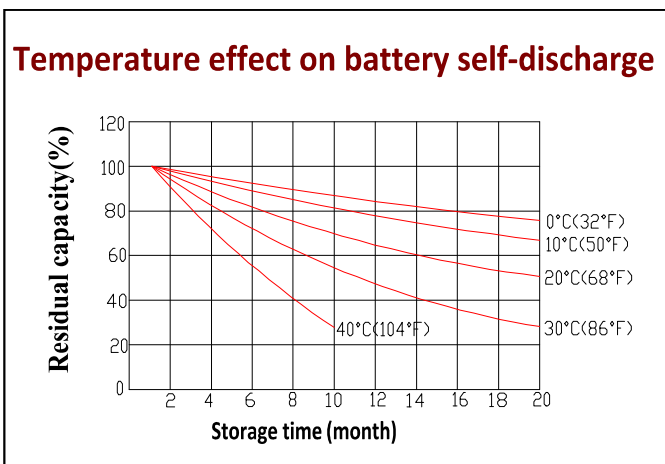
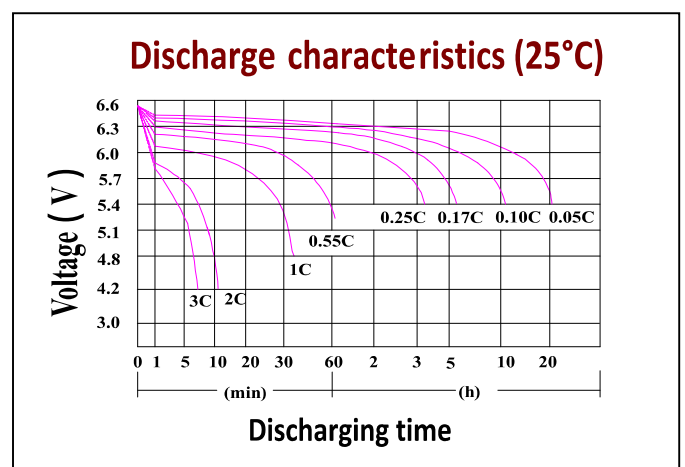
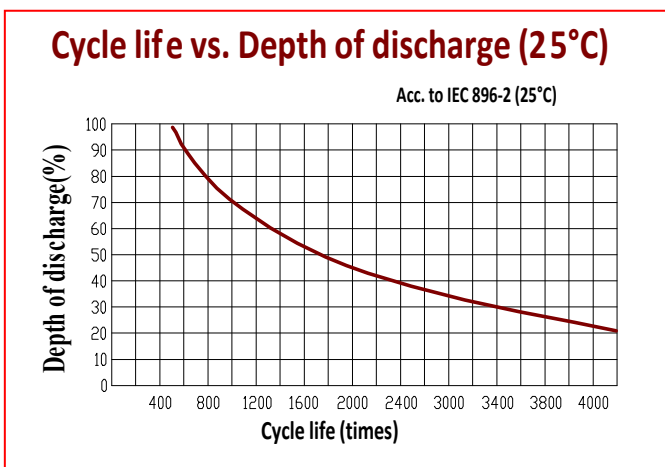
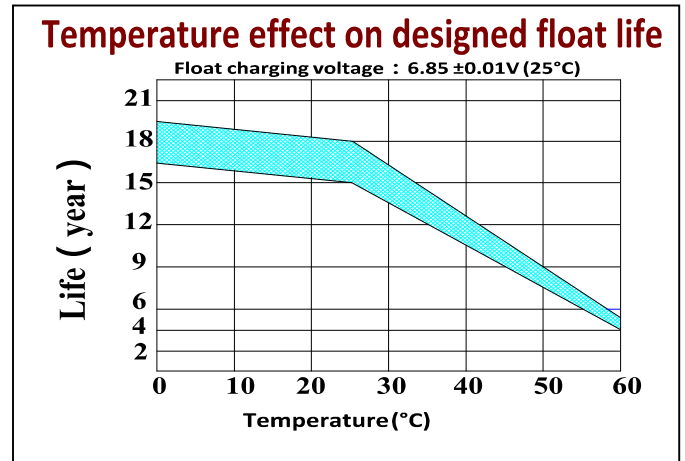
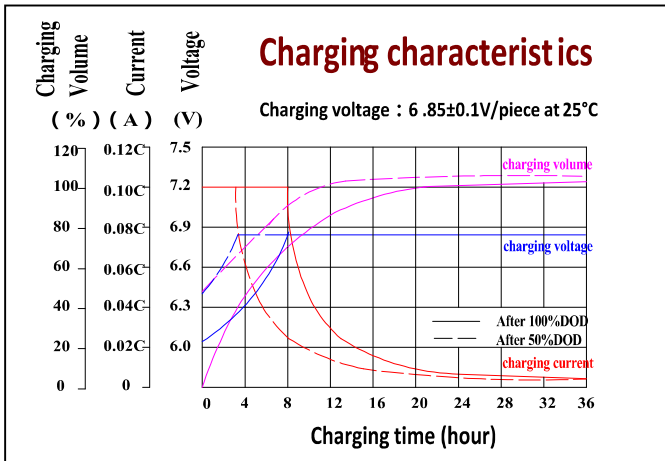
**Discharge Constant Power per Cell (Watts at 25°C)**

| F.V/Time | 15min | 30min | 45min | 1h    | 2h    | 3h    | 5h   | 8h   | 10h  | 20h  | 100h |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 619.4 | 394.4 | 291.2 | 267.3 | 169.7 | 119.1 | 81.0 | 53.5 | 47.6 | 26.0 | 5.77 |
| 1.65V    | 608.1 | 387.2 | 285.9 | 262.5 | 166.6 | 116.9 | 79.5 | 52.5 | 46.8 | 25.5 | 5.66 |
| 1.70V    | 596.8 | 380.0 | 280.6 | 257.6 | 163.5 | 114.8 | 78.0 | 51.5 | 45.9 | 25.0 | 5.56 |
| 1.75V    | 585.6 | 372.9 | 275.3 | 252.8 | 160.4 | 112.6 | 76.6 | 50.6 | 45.0 | 24.5 | 5.45 |
| 1.80V    | 563.1 | 358.5 | 264.7 | 243.0 | 154.2 | 108.3 | 73.6 | 48.6 | 43.3 | 24.1 | 5.34 |

**Note:** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSPower** for the latest information.

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**PERFORMANCE CHARACTERISTICS**



**BATTERY CONSTRUCTION**

| Component | Positive plate                               | Negative plate  | Container & Cover                     | Safety valve                         | Terminal                | Separator   | Electrolyte | Pillar seal                 |
|-----------|--|---|---------------------------------------|--------------------------------------|-------------------------|---|-------------|-----------------------------|
| Features  | Thick high Sn low Ca grid with special paste | Balanced Pb-Ca grid for improved recombination efficiency | Fire resistant ABS (UL94-V0 optional) | Flame Si-Rubber and aging resistance | Female Copper Insert M8 | Advanced PVC /AGM separator for high pressure cell design | Silicon Gel | Two layers epoxy resin seal |

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