

DEEP CYCLE VRLA BATTERY
WirCD12-260



General Features

- Environmentally friendly
- Thick plate with high Tin low Calcium alloy
- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Long Service Life, in Float or Cyclic

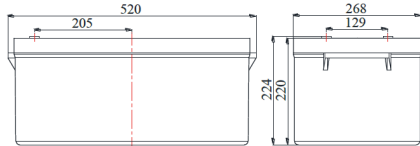
Applications

- Solar & Wind energy system
- Cable TV Systems
- Telecom systems
- Wheel chair & Golf Car
- Marine Equipment
- Railway Systems
- Emergency Power System



Dimensions & Weight

|                  |         |
|------------------|---------|
| Length(mm)       | 520±1   |
| Width(mm)        | 268±1   |
| Height(mm)       | 220±1   |
| Total Height(mm) | 224±1   |
| Weight(kg)       | 77.0±3% |



| COMPLIED STANDARDS |              |
|--------------------|--------------|
| IEC 60896-21/22    | JIS C8704    |
| YD/T799            | BS6290 part4 |
| GB/T 19638         |              |

Technical Specifications

|                                                       |                                                                                        |                                                                |
|-------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Nominal Voltage                                       |                                                                                        | 12V(6 cells per unit)                                          |
| Design Floating Life @25℃                             |                                                                                        | 12 Years                                                       |
| Nominal Capacity @25℃<br>(20 hour rate@10.00A,10.80V) |                                                                                        | 260Ah                                                          |
| Capacity @25℃                                         | 10 hour rate (23.66A,10.8V)<br>5 hour rate (41.30A,10.5V)<br>1 hour rate (144.6A,9.6V) | 236.6Ah<br>206.5Ah<br>144.6Ah                                  |
| Internal Resistance                                   | Full Charged Battery@25℃                                                               | ≤2.8mΩ                                                         |
| Ambient Temperature                                   | Discharge<br>Charge<br>Storage                                                         | -20℃ ~50℃<br>-20℃ ~50℃<br>-20℃ ~50℃                            |
| Max.Discharge Current@25℃                             |                                                                                        | 2600A(5s)                                                      |
| Capacity affected by Temperature<br>(10 hr Capacity ) | 40℃<br>25℃<br>0℃<br>-15℃                                                               | 102%<br>100%<br>85%<br>65%                                     |
| Self-Discharge@25℃ per Month                          |                                                                                        | 3%                                                             |
| Charge (Constant Voltage) @25℃                        | Standby Use                                                                            | Initial Charging Current<br>Less than 43.2A Voltage 13.6-13.8V |
|                                                       | Cycle Use                                                                              | Initial Charging Current<br>Less than 43.2A Voltage 14.4-14.9V |

Battery Discharge Table

Discharge Constant Current per Cell (Amperes at 25℃)

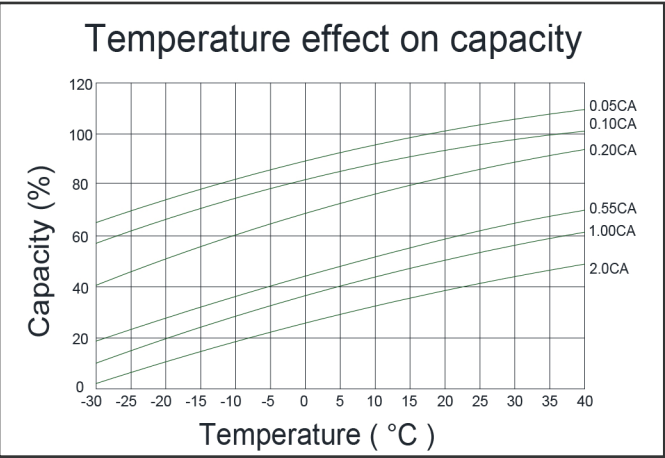
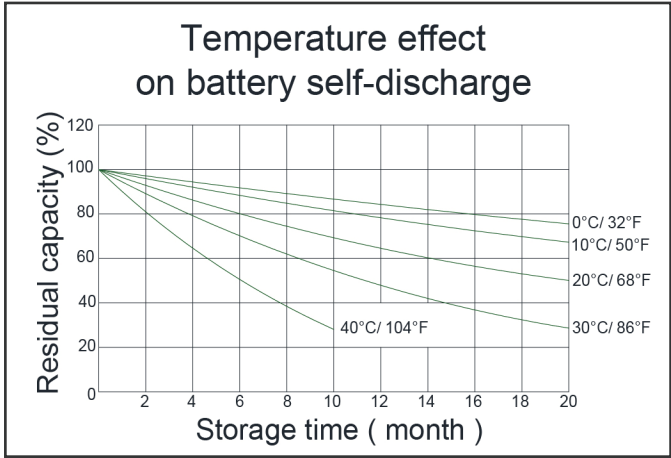
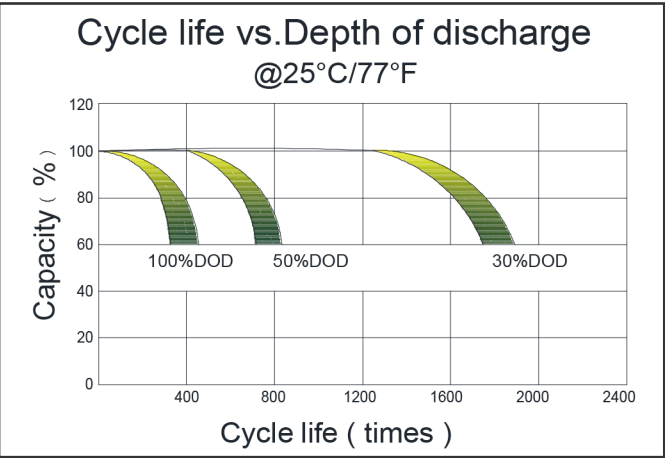
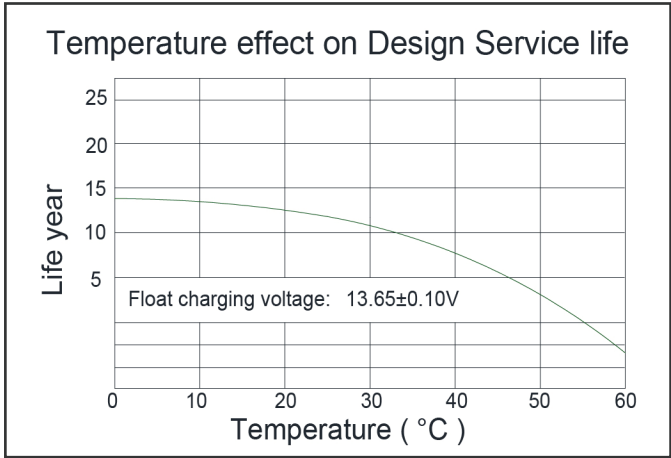
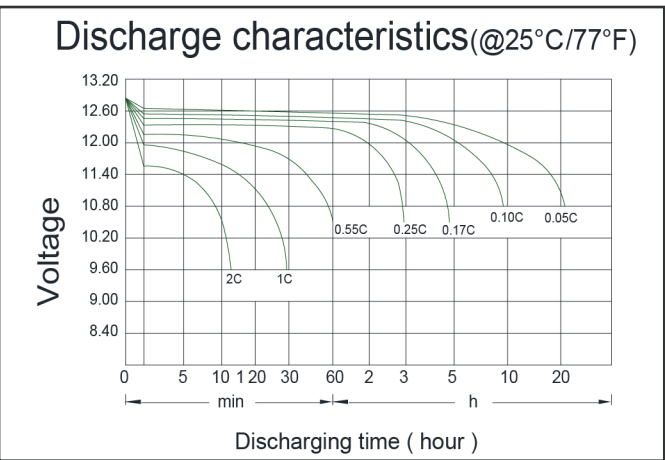
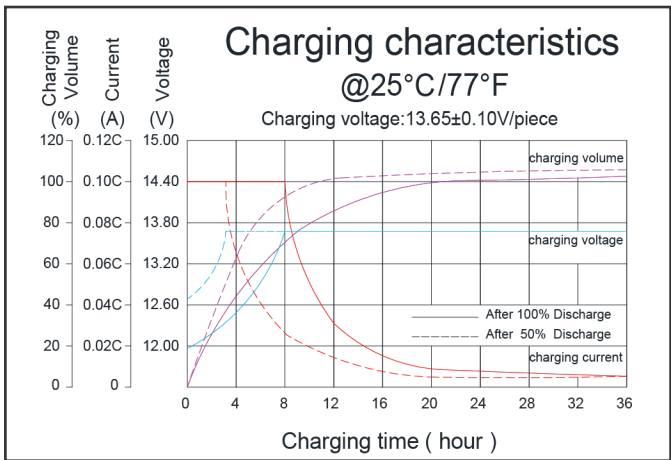
| F.V/Time | 15min | 30min | 45min | 1h    | 2h   | 3h   | 5h   | 8h   | 10h   | 20h   | 100h |
|----------|-------|-------|-------|-------|------|------|------|------|-------|-------|------|
| 1.60V    | 334.6 | 213.7 | 157.0 | 144.6 | 91.8 | 64.5 | 43.7 | 28.9 | 25.74 | 13.78 | 3.12 |
| 1.67V    | 328.6 | 209.8 | 154.2 | 141.7 | 90.0 | 63.2 | 42.9 | 28.3 | 25.22 | 13.52 | 3.07 |
| 1.70V    | 322.4 | 205.9 | 151.3 | 139.1 | 88.4 | 62.1 | 42.1 | 27.8 | 24.70 | 13.26 | 2.99 |
| 1.75V    | 316.4 | 202.0 | 148.5 | 136.5 | 86.6 | 60.8 | 41.3 | 27.3 | 24.44 | 13.00 | 2.94 |
| 1.80V    | 304.2 | 194.2 | 142.7 | 131.3 | 83.2 | 58.5 | 39.8 | 26.3 | 23.66 | 12.87 | 2.89 |

Discharge Constant Power per Cell (Watts at 25℃)

| F.V/Time | 15min | 30min | 45min | 1h    | 2h    | 3h    | 5h   | 8h   | 10h  | 20h  | 100h |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 644.0 | 411.3 | 302.4 | 277.4 | 176.3 | 123.8 | 84.2 | 55.4 | 49.7 | 26.9 | 6.01 |
| 1.67V    | 632.3 | 403.8 | 296.7 | 272.5 | 173.2 | 121.7 | 82.7 | 54.6 | 48.6 | 26.3 | 5.88 |
| 1.70V    | 620.6 | 396.2 | 291.2 | 267.3 | 170.0 | 119.3 | 81.1 | 53.6 | 47.8 | 26.1 | 5.77 |
| 1.75V    | 608.9 | 388.7 | 285.7 | 262.3 | 166.7 | 117.0 | 79.6 | 52.5 | 46.8 | 25.7 | 5.67 |
| 1.80V    | 585.5 | 373.9 | 274.8 | 252.2 | 160.4 | 112.6 | 76.7 | 50.4 | 45.0 | 25.0 | 5.56 |

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 Wirkos for the latest information.

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 | ABS (UL94-V0 optional) | Flame Si-Rubbeand aging resistanacer | Female Copper Insert M6(torque:7 ~9N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid with fumed Silica gel | Two layers epoxy resin seal |