

DEEP CYCLE VRLA BATTERY
WirCD12-100



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

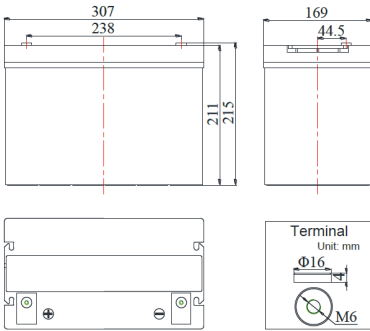
Applications

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



Dimensions & Weight

Length(mm)	307±1
Width(mm)	169±1
Height(mm)	211±1
Total Height(mm)	215±1
Weight(kg)	30.2±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°C		12 Years
Nominal Capacity @25°C (20 hour rate@10.00A,10.80V)		100Ah
Capacity @25°C	10 hour rate (9.1A,10.8V)	91.0Ah
	5 hour rate (15.9A,10.5V)	79.5Ah
	1 hour rate (55.6A,9.6V)	55.6Ah
Internal Resistance		Full Charged Battery@25°C ≤6.0mΩ
Ambient Temperature	Discharge	-20°C ~50°C
	Charge	-20°C ~50°C
	Storage	-20°C ~50°C
Max.Discharge Current@25°C		1000A(5s)
Capacity affected by Temperature (10 hr Capacity)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 22.5A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 22.5A Voltage 14.4-14.9V

Battery Discharge Table

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

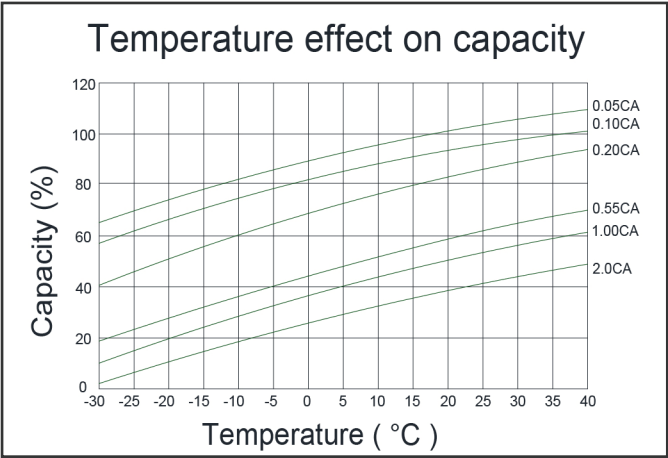
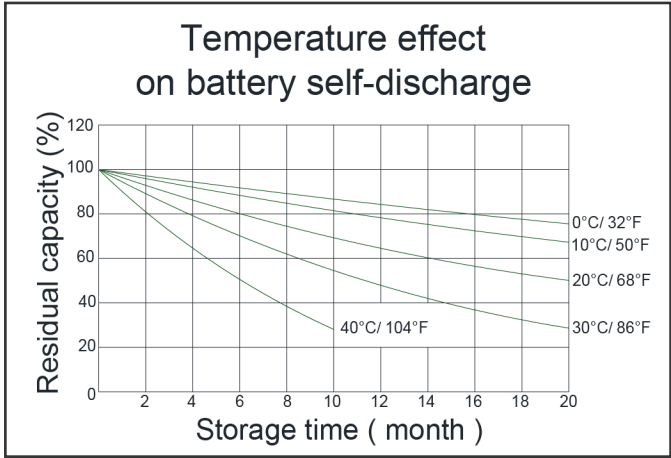
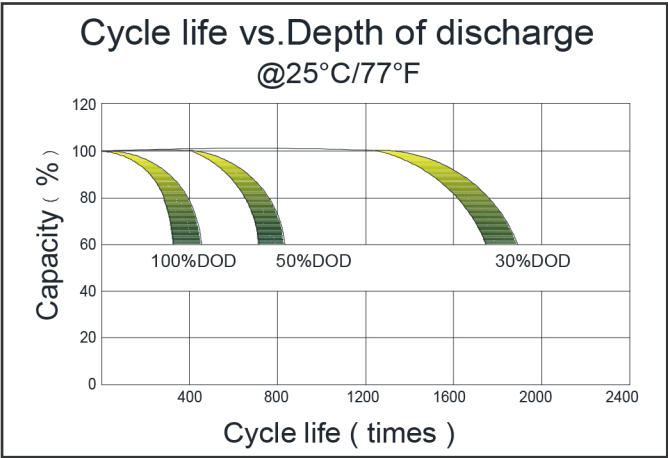
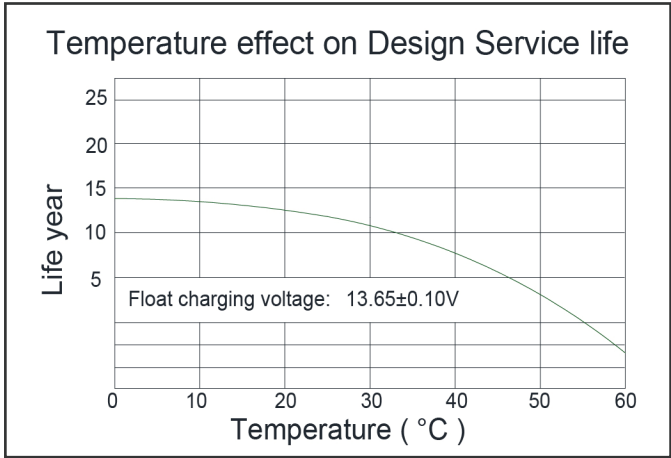
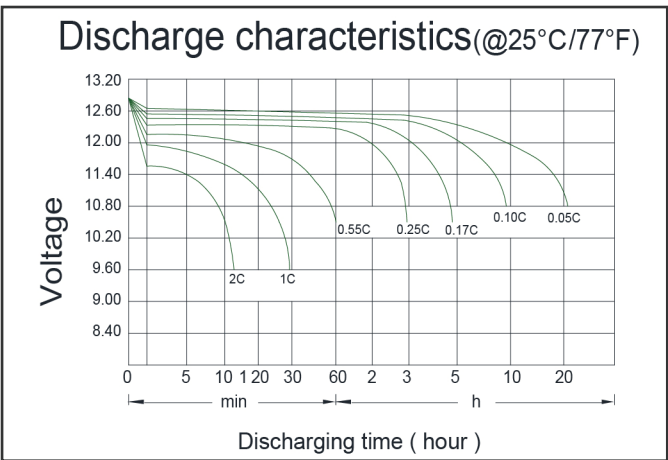
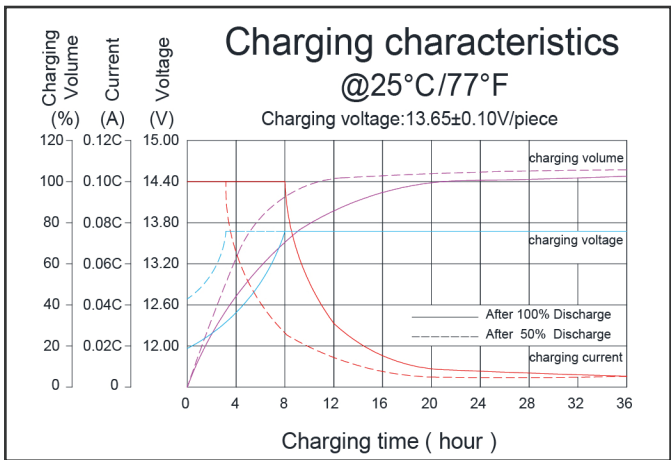
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	128.7	82.2	60.4	55.6	35.3	24.8	16.8	11.1	9.90	5.30	1.20
1.67V	126.4	80.7	59.3	54.5	34.6	24.3	16.5	10.9	9.70	5.20	1.18
1.70V	124.0	79.2	58.2	53.5	34.0	23.9	16.2	10.7	9.50	5.10	1.15
1.75V	121.7	77.7	57.1	52.5	33.3	23.4	15.9	10.5	9.40	5.00	1.13
1.80V	117.0	74.7	54.9	50.5	32.0	22.5	15.3	10.1	9.10	4.95	1.11

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	247.7	158.2	116.3	106.7	67.8	47.6	32.4	21.3	19.1	10.3	2.31
1.67V	243.2	155.3	114.1	104.8	66.6	46.8	31.8	21.0	18.7	10.1	2.26
1.70V	238.7	152.4	112.0	102.8	65.4	45.9	31.2	20.6	18.4	10.1	2.22
1.75V	234.2	149.5	109.9	100.9	64.1	45.0	30.6	20.2	18.0	9.9	2.18
1.80V	225.2	143.8	105.7	97.0	61.7	43.3	29.5	19.4	17.3	9.6	2.14

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:4 ~6N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid with fumed Silica gel	Two layers epoxy resin seal