

GENERAL PURPOSE GEL VRLA BATTERY

WirCG12-100



General Features

- Environmentally friendly
- Wide operating temperature range
- Nano gel electrolyte and long Floating service Life
- Can be used at vertical or horizontal orientation
- High Power Density
- Low self discharge

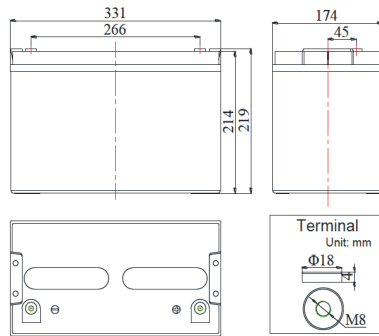
Applications

- Telecom Control Equipments
- UPS systems
- Communication Equipments
- Medical Equipments
- Emergency Power Systems
- Security Systems
- Cable TV
- Railway System



Dimensions & Weight

Length(mm)	331±1
Width(mm)	174±1
Height(mm)	214±1
Total Height(mm)	219±1
Weight(kg)	29.2±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	15 Years	
Nominal Capacity @25°C (20 hour rate@10.00A,10.80V)	100Ah	
Capacity @25°C	20 hour rate (5.35A,10.5V) 5 hour rate (17.6A,10.5V) 1 hour rate (63.8A,9.6V)	107.0Ah 88.0Ah 63.8Ah
Internal Resistance	Full Charged Battery@25°C	≤5.5mΩ
Ambient Temperature	Discharge Charge Storage	-30°C ~60°C -30°C ~60°C -30°C ~60°C
Max.Discharge Current@25°C	900A(5s)	
Capacity affected by Temperature (10 hr Capacity)	40°C 25°C 0°C -15°C	108% 100% 90% 70%
Self-Discharge@25°C per Month	3%	
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 25A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 25A Voltage 14.4-14.9V

Battery Discharge Table

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

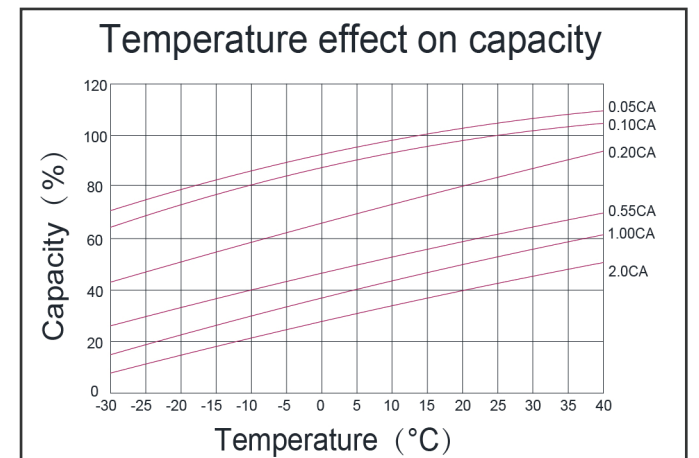
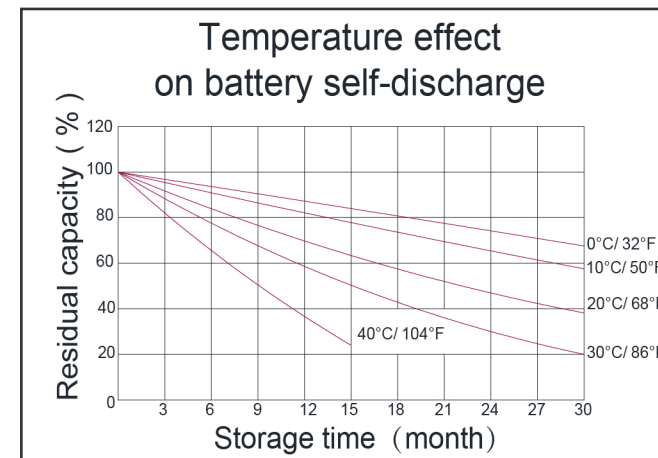
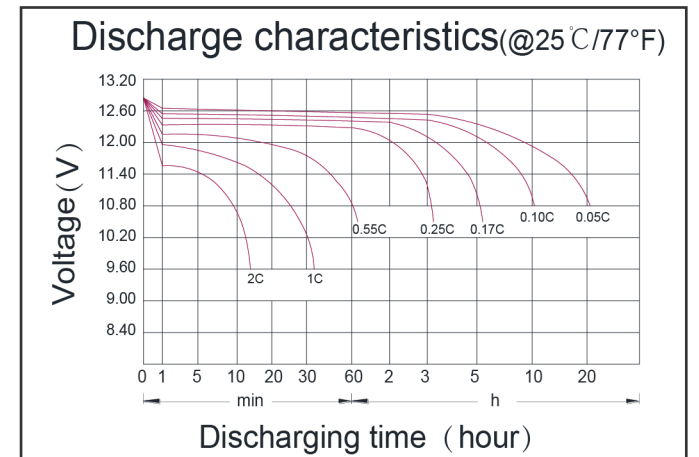
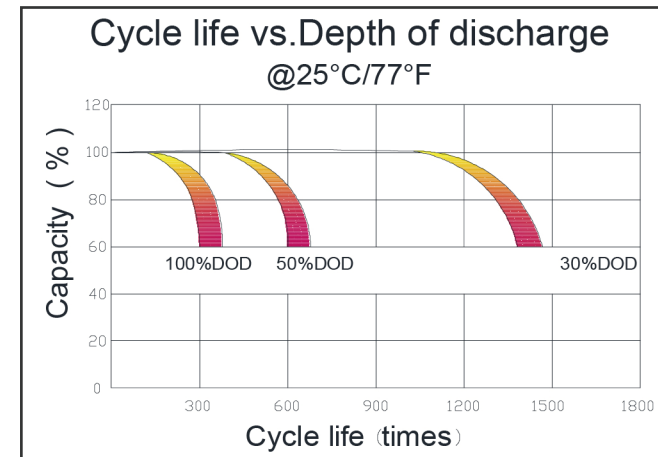
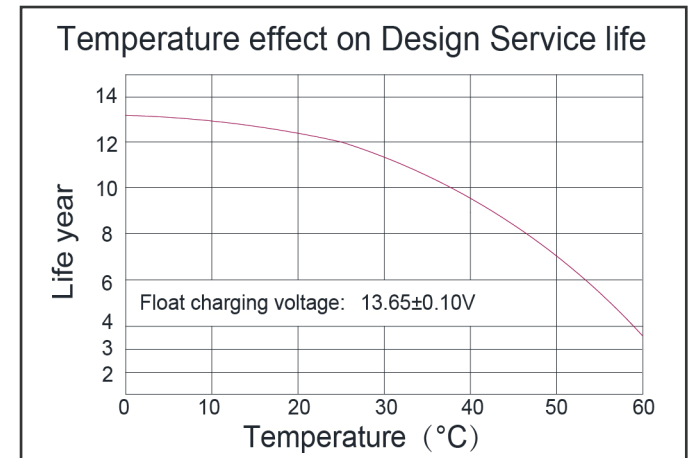
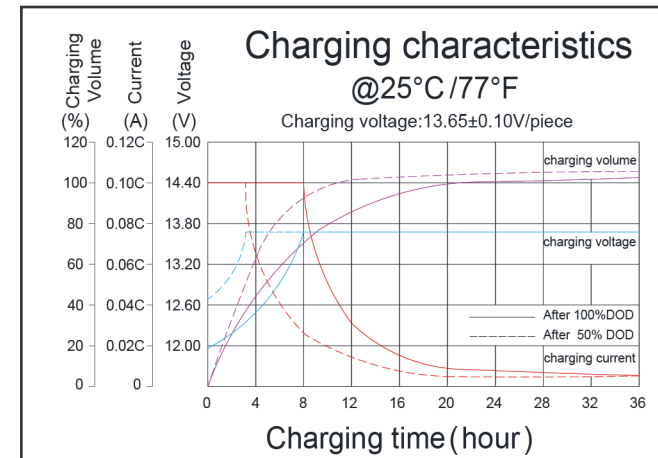
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	180.5	106.3	80.5	63.8	37.5	27.6	18.6	16.2	12.7	10.5	5.55
1.67V	170.5	100.7	77.4	61.9	36.3	26.7	18.3	15.9	12.6	10.3	5.50
1.70V	160.1	97.8	74.6	59.5	35.3	26.0	17.9	15.6	12.4	10.2	5.42
1.75V	150.0	93.5	71.3	57.1	34.4	25.4	17.6	15.3	12.2	10.1	5.35
1.80V	140.7	90.1	68.7	55.1	33.1	24.6	17.2	15.0	12.0	10.0	5.30

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	345.1	211.1	152.9	122.4	71.1	52.7	35.9	31.3	24.8	20.5	11.0
1.67V	330.2	197.9	147.7	119.1	69.2	51.3	35.3	30.8	24.6	20.3	10.9
1.70V	307.7	193.6	143.0	115.0	67.6	50.1	34.8	30.4	24.3	20.1	10.7
1.75V	288.7	184.3	137.3	110.8	66.0	49.1	34.3	29.9	24.0	19.9	10.7
1.80V	271.0	176.8	132.7	107.2	63.8	47.7	33.6	29.4	23.7	19.8	10.6

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-Rubber aging resister	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