

GEL Series Battery

Range Summary

By combining the newly developed nano gel electrolyte with high density paste, Vvution created an innovative range of VTG batteries. The range offers high recharge efficiency at the very low charge current. The acid stratification is highly depressed by adding of gel. This range battery is highly suited to energy storage for renewable energy such as PV and wind turbine power systems applications.

General Features

12 years float life at 25°C
 Up to 5 years design life at renewable energy applications
 Wide operating temperature range of -15 to 60°C
 Nano gel electrolyte eliminate the acid stratification and prolong cycle life
 Round trip efficiency as high as 85%
 Thick positive flat plate with high density paste
 Low self-discharge rate and long shelf life(1 year at 25°C)
 Excellent deep discharge recovery capability

Construction

- PositiveLead dioxide
- NegativeLead
- Container.....ABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorAGM
- ElectrolyteH₂SO₄+SiO₂

Application

- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility



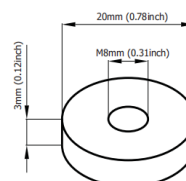
ISO 9001



ISO14001

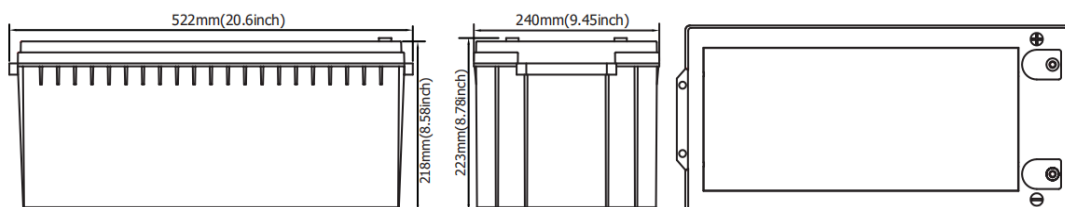


CE



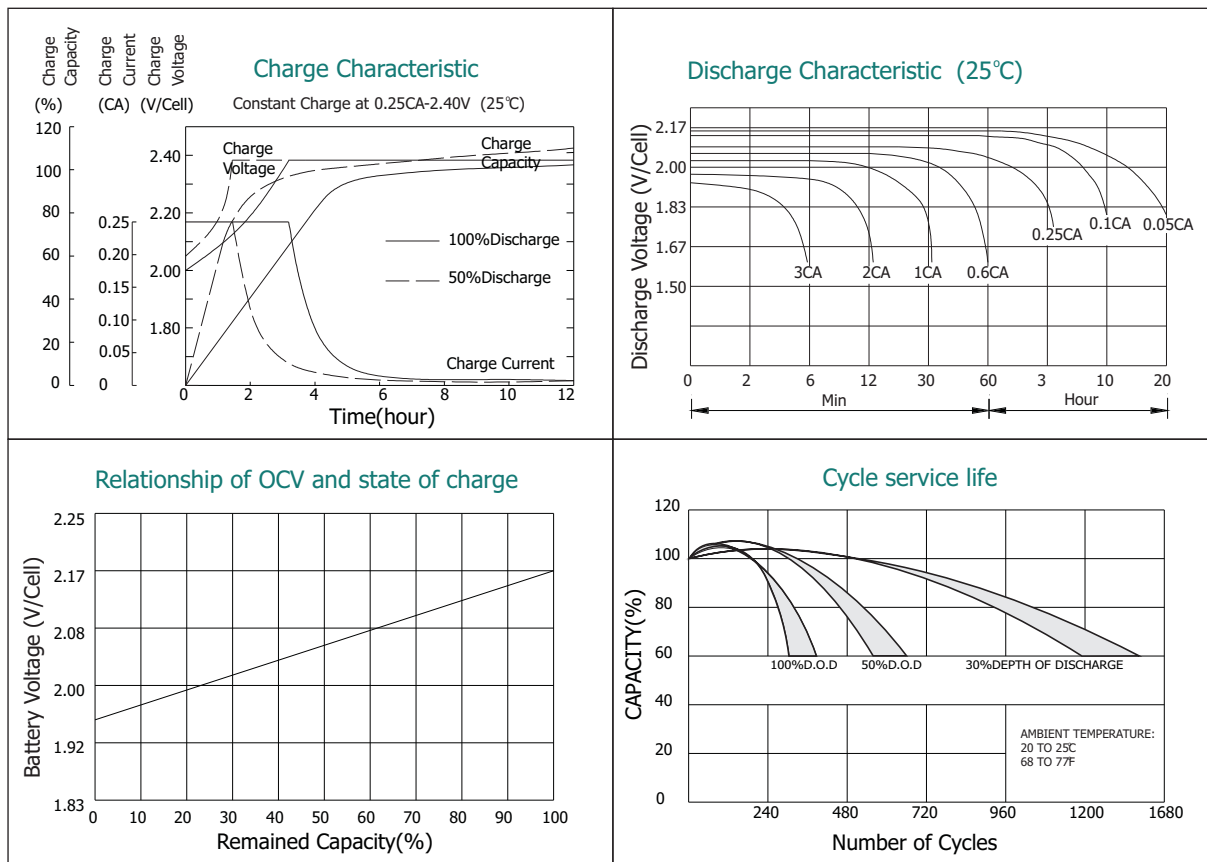
Terminal Dimensions

Battery Dimensions



Technical Specifications

Battery Model	VTG12-200			
Designed Floating Life	12 Years			
Capacity(25°C)	20HR(10.6A,1.80V)	10HR(20A,1.80V)	5HR(35.0A,1.75V)	1HR(130A,1.60V)
	212Ah	200Ah	175Ah	130Ah
Dimensions	Length	Width	Height	Total Height
	522mm(20.6inch)	240mm(9.45inch)	218mm(8.58inch)	223mm(8.78inch)
Approx. Weight	59.0Kg (129.8lbs)			
Internal Resistance	Full charged at 25°C: 5 Ohm			
Self Discharge	< 3% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(10HR)	40°C	25°C	0°C	-15°C
	109%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-14.8V(-30mV/°C), max. Current: 50A		13.6-13.8V(-18mV/°C)	



Constant current discharge ratings-amperes at 25°C

F.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	700	480	350	210	130	54.6	35.8	21.2	11.0
1.67V	630	438	340	204	129	54.4	35.5	20.9	10.9
1.70V	598	422	328	200	128	54.2	35.3	20.7	10.8
1.75V	532	390	310	196	127	54.0	35.0	20.4	10.7
1.80V	480	362	296	190	126	53.8	34.7	20.0	10.6
1.85V	364	298	256	175	124	53.6	34.4	19.7	9.86

Constant power discharge ratings-watts at 25°C

F.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	1154	796	620	396	258	109	69.4	42.4	22.0
1.67V	1094	786	614	388	251	107	69.0	41.8	21.9
1.70V	1022	766	604	378	245	105	68.8	41.5	21.8
1.75V	952	716	568	368	243	102	68.2	40.7	21.7
1.80V	854	666	534	358	238	98.0	67.5	40.0	21.0
1.85V	684	552	466	328	236	95.0	66.5	39.3	19.7

Quality Management System Authentication	CE authentication	CE	UL	Pb	Pb	Recycling	Fire	Explosion	Shock	Corrosion	Leakage
GB/T19001-2008 NO.00113Q29865ROM/4200	CE12-GPE 120171										

Wuhan Vution Lithium Power Technology Co., Ltd

ADD:24th Floor,Optics Valley Dingchuang International,
Optics Valley Rare Eco Industrial Park,Wuhan,
Hubei Province,China

Email:jeffery@vutionlithium.com

Web:www.vutionlithium.com

Tel:86-027-5952 3682