

GEL Series Battery

Range Summary

By combining the newly developed nano gel electrolyte with high density paste, Vution 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.

Application

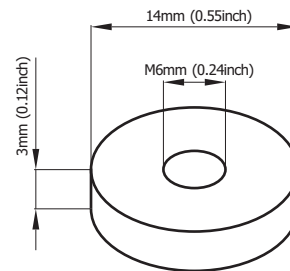
- Photovoltaic system
- Renewable Energy System
- Electric Utility
- Outdoor control Equipment
- Railroad Utility

General Features

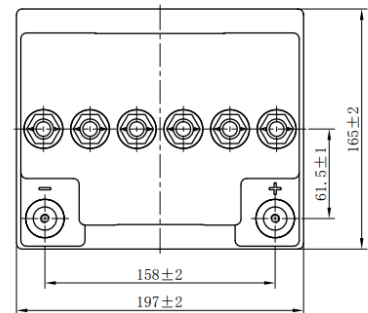
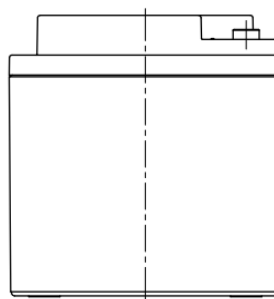
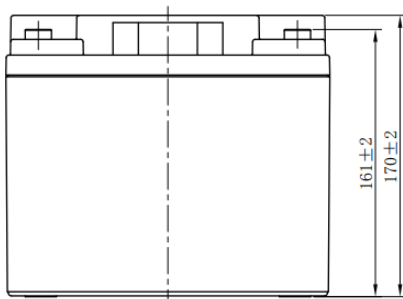
- 12 years float life at 20°C
- Up to 5 years design life at renewable energy applications
- Wide operating temperature range of -15 to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate with high density paste
- Low self-discharge rate and long shelf life(1 year at 25°C)
- Excellent deep discharge recovery capability

Construction

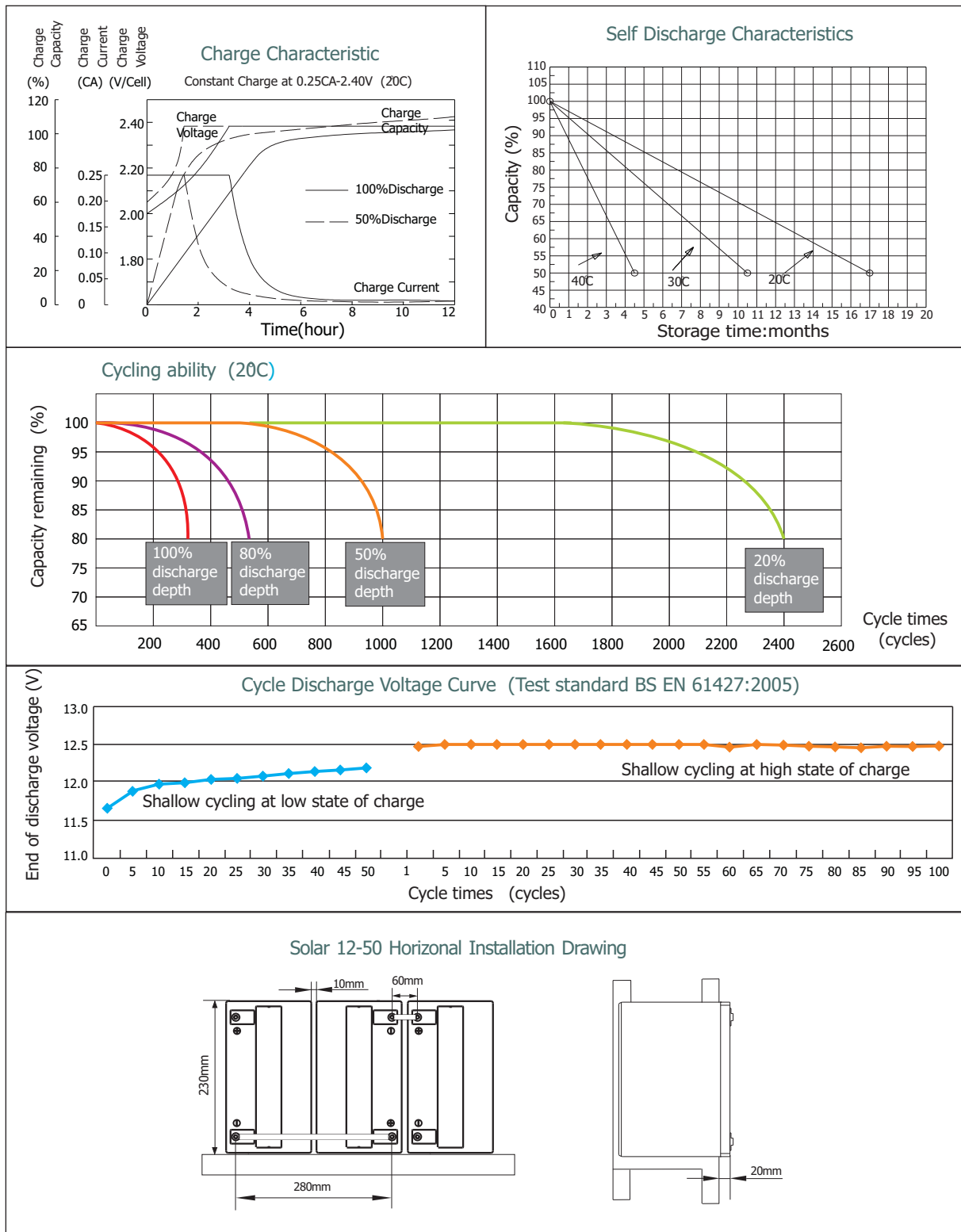
- PositiveLead dioxide
- NegativeLead
- Container.....ABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorAGM
- ElectrolyteAcid with gel



Terminal Dimensions



Battery Model	VTG 12-40			
Designed Floating Life	12 Years			
Designed Cycle Life	5 Years			
Capacity(20°C)	10HR(4A,1.80V)	24HR(2A,1.80V)	48HR(1.1A,1.80V)	100HR(0.55A,1.80V)
	40Ah	48Ah	52.8Ah	55Ah
Dimensions	Length	Width	Height	Total Height
	230mm(9.04inch)	138mm(5.44inch)	208mm(8.19inch)	211mm(8.31inch)
Approx. Weight	13.2Kg			
Internal Resistance	Full charged at 20°C: 0.0062 Ohm			
Self Discharge	3% of capacity declined per month at (20°C)			
Capacity Affected by Temp.(10HR)	40°C	20°C	0°C	-15°C
	109%	100%	85%	65%
Charge Voltage(20°C)	Cycle use		Float use	
	14.4-14.8V(-30mV/ °C), max. Current: 12.5A		13.6-13.8V(-18mV/ °C)	



Constant current discharge ratings-amperes at 20°C

TIME	1h	3h	5h	10h	24h	48h	72h	100h	120h
CUT-OFF VOLTAGE	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
CAPACITY(Ah)	26	32	38	40	48	52.5	53.8	55	58

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

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