

General purpose application series

Range Summary

Using oxygen recombination technology: maintenance-free

PbCaSn alloy for plate grids: low self discharge rate than 3% per month

High quality AGM separator: extend cycle life and prevent micro short circuit retardant

High purity raw material: 99.99% pure lead

Application

Cable Television
Communication
Equipment
Security System

UPS
Control Equipment
Medical Equipment
Emergency Power



ISO 9001

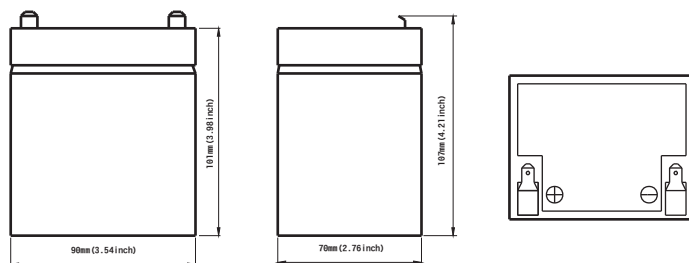


ISO 14001

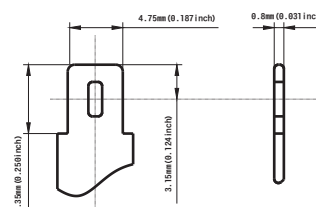


CE

Battery Dimensions

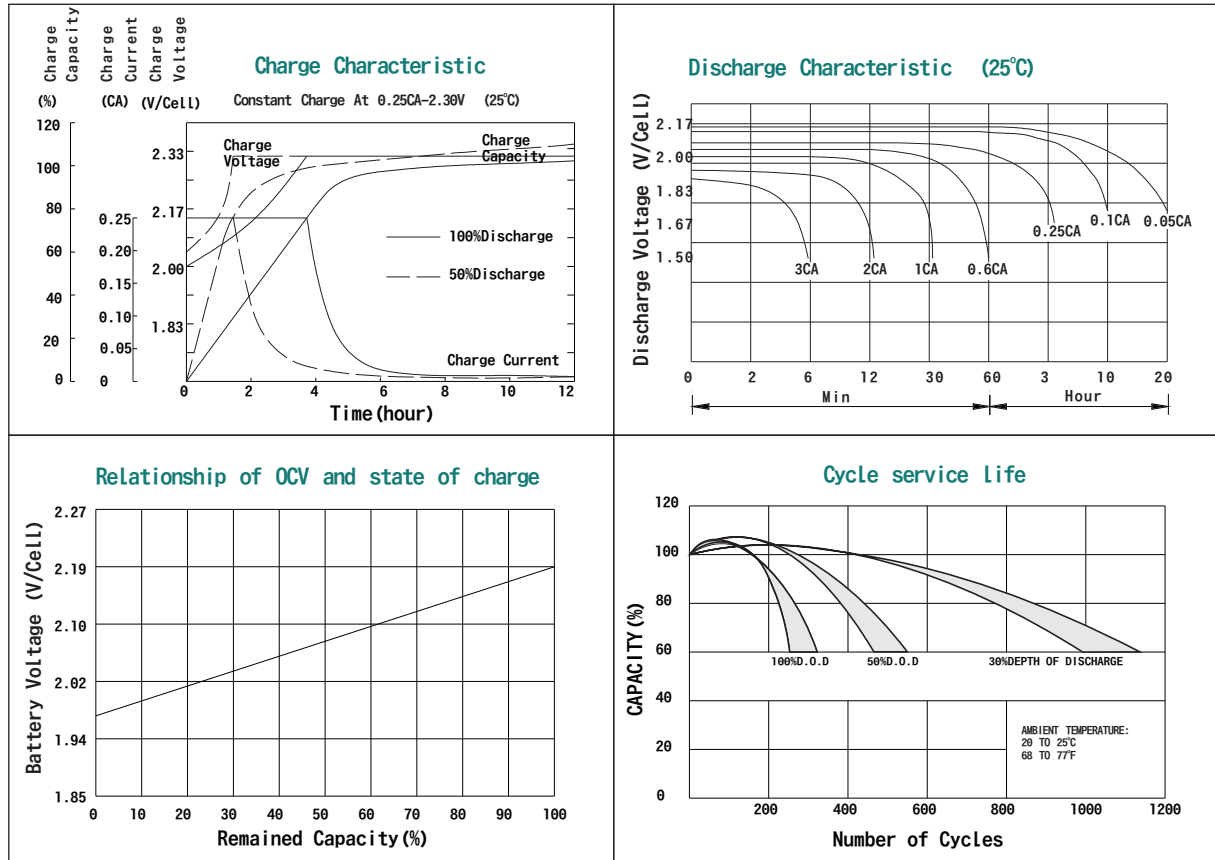


Terminal Dimensions



Technical Specifications

Battery Model	VT-12-4.5			
Designed Floating Life	5 Years			
Capacity (25°C)	20HR (0.225A, 1.80V)	10HR (0.41A, 1.80V)	5HR (0.77A, 1.75V)	1HR (2.94A, 1.60V)
	4.5AH	4.1AH	3.85AH	2.94AH
Dimensions	Length	Width	Height	Total Height
	90mm (3.54inch)	70mm (2.76inch)	101mm (3.98inch)	107mm (4.21inch)
Approx. Weight	1.35Kg			
Internal Resistance	Full charged at 25°C: 0.035 Ohm			
Self Discharge	3% of capacity declined per month at (25°C)			
Capacity Affected by Temp. (20HR)	40°C	25°C	0°C	-15°C
	109%	100%	85%	65%
Charge Voltage (25°C)	Cycle use		Float use	
	14.4-15V (-30mV/ °C) , max. Current: 1.35A		13.6-13.8V (-20mV/ °C)	



Constant current discharge ratings-amperes at 25°C

F.V /T in e	5M IN	10M IN	15M IN	30M IN	1HR	3HR	5HR	10HR	20HR
1.60V	18.5	12.6	9.08	5.08	2.94	1.40	0.82	0.422	0.253
1.67V	17.3	11.9	8.73	4.86	2.90	1.35	0.81	0.418	0.244
1.70V	15.9	11.5	8.53	4.42	2.82	1.26	0.79	0.417	0.240
1.75V	15.6	11.1	8.25	4.20	2.68	1.22	0.77	0.411	0.234
1.80V	13.9	10.6	7.49	3.89	2.51	1.17	0.73	0.406	0.225
1.85V	12.3	10.1	6.74	3.58	2.34	1.13	0.68	0.400	0.221

Constant power discharge ratings-watts at 25°C

F.V /T in e	5M IN	10M IN	15M IN	30M IN	1HR	3HR	5HR	10HR	20HR
1.60V	33.9	21.7	16.6	10.0	5.31	2.49	1.392	0.845	0.504
1.67V	32.7	21.2	16.4	9.76	5.28	2.41	1.386	0.840	0.486
1.70V	31.8	21.0	16.2	9.14	5.18	2.30	1.368	0.834	0.480
1.75V	31.0	20.9	16.1	8.87	5.09	2.25	1.356	0.824	0.468
1.80V	28.4	20.6	14.9	8.46	4.80	2.18	1.314	0.813	0.456
1.85V	25.7	19.5	13.5	7.92	4.51	2.12	1.272	0.803	0.438

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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