Koyama®

General Purpose VRLA AGM Battery

NP 4-4

GENERAL FEATURES

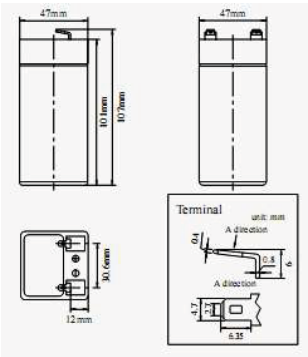
- Environmentally friendly
- Can be used at vertical or horizontal orientation
- High Reliability and Good Quality
- High gas recombination efficiency
- High Power Density
- Maintenance-Free Operation

APPLICATIONS

- UPS & EPS
- Emergency lighting Systems
- Medical Equipment
- Cable TV Systems
- Alarm Systems
- Electric Test Equipment
- Security Systems

DIMENSIONS & WEIGHT

Length(mm)	47±1
Width(mm)	47±1
Heighth(mm)	101±1
Total Heighth(mm)	107±1
Weight(kg)	0.50±3%



COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T799	BS6290 part4
GB/T 19639	UL 1989

TECHNICAL SPECIFICATIONS

Nominal Voltage		4V(2 cells per unit)
Design Floating Life @25℃		5 Years
Nominal Capacity @25℃(20 hour rate@0.200A,3.50V)		4.00Ah
Capacity @25℃	10 hour rate (0.38A,3.6V)	3.80Ah
	5 hour rate (0.70A,3.5V)	3.50Ah
	1 hour rate (2.75A,3.2V)	2.75Ah
Internal Resistance	Full Charged Battery@25℃	≤28.0mΩ
Ambient Temperature	Discharge	-20℃~50℃
	Charge	-20℃~50℃
	Storage	-20℃~50℃
Max.Discharge Current@25℃		60A(5s)
Capacity affected by Temperature (10 hr Capacity)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-Discharge@25℃ per Month		3%
Charge (Constant Voltage) @25℃	Standby Use	Initial Charging Current Less than 1.20A Voltage 4.53-4.6V
	Cycle Use	Initial Charging Current Less than 1.20A Voltage 4.8-4.97V

BATTERY DISCHARGE TABLE

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

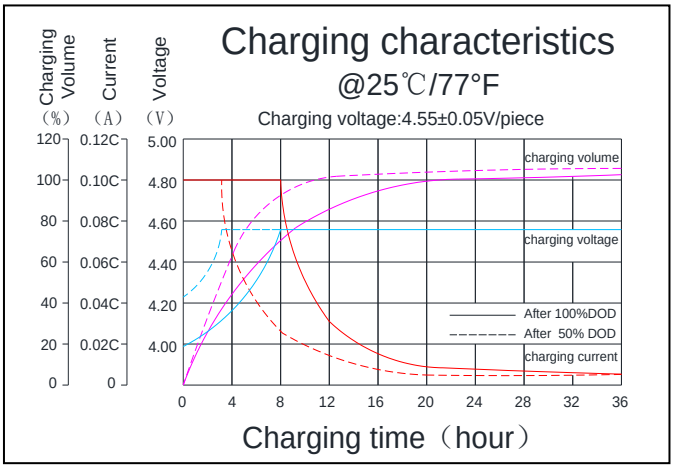
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	13.75	9.94	7.83	4.58	3.21	2.75	1.62	1.11	0.74	0.49	0.40	0.211
1.67V	13.50	9.83	7.61	4.50	3.15	2.70	1.59	1.09	0.73	0.49	0.39	0.207
1.70V	13.25	9.56	7.44	4.42	3.09	2.65	1.56	1.07	0.71	0.48	0.39	0.204
1.75V	13.00	9.11	7.22	4.33	3.03	2.60	1.53	1.05	0.70	0.47	0.38	0.200
1.80V	12.50	9.00	7.00	4.17	2.92	2.50	1.47	1.01	0.67	0.45	0.38	0.198

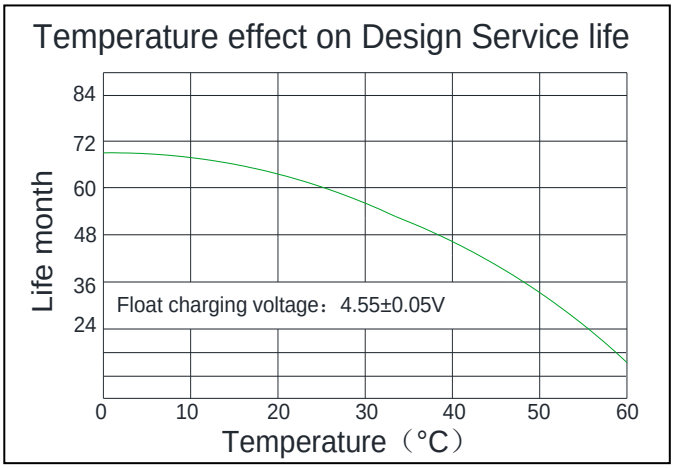
Discharge Constant Power per Cell (Watts at 25°C)

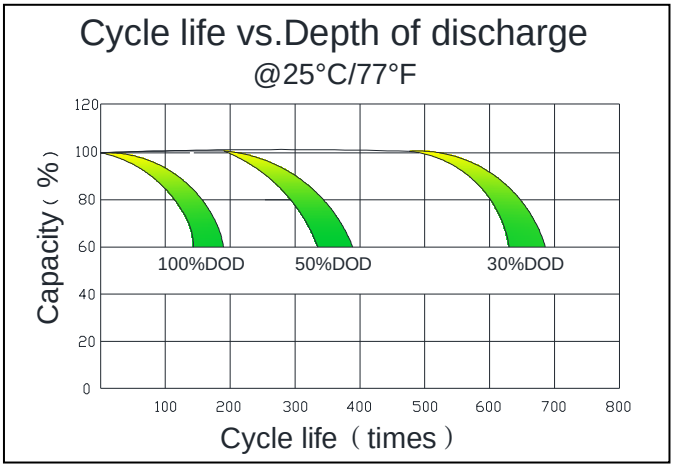
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	26.47	19.61	15.11	8.82	6.18	5.29	3.12	2.13	1.42	0.96	0.79	0.417
1.67V	25.99	19.28	14.67	8.66	6.06	5.20	3.06	2.09	1.39	0.94	0.78	0.406
1.70V	25.51	18.89	14.28	8.50	5.95	5.10	3.00	2.06	1.37	0.92	0.76	0.400
1.75V	25.03	17.78	13.89	8.34	5.84	5.01	2.94	2.02	1.34	0.91	0.75	0.394
1.80V	24.06	17.22	13.50	8.02	5.62	4.81	2.83	1.94	1.29	0.87	0.73	0.389

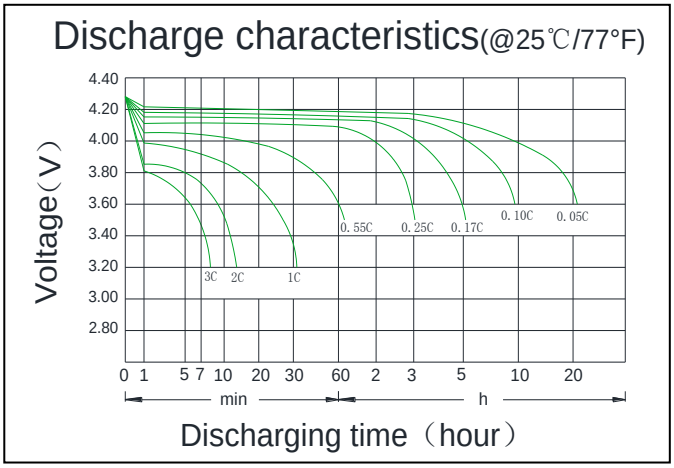
Note The above data are average values, and can be obtained within 3 charge discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CBB** for the latest information.

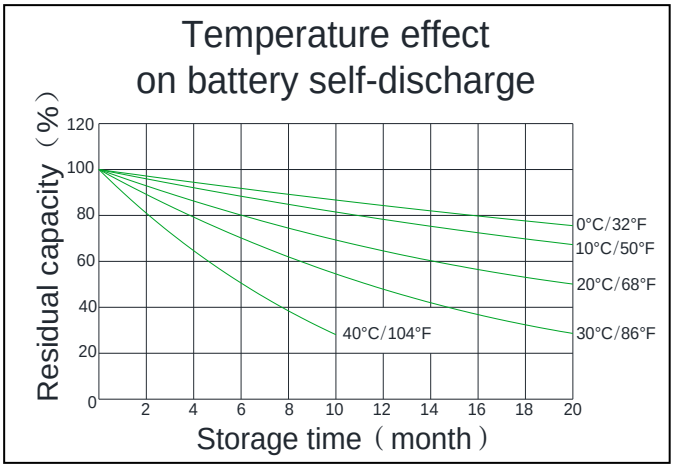
PERFORMANCE CHARACTERISTICS

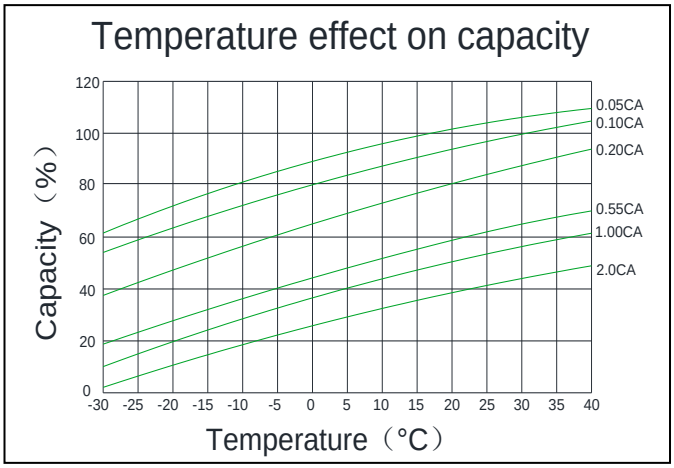












BATTERY CONSTRUCTION

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 resistancer	Female Copper Insert（F1）	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

CBB Battery Technology Co.,Ltd.
RM504,55 Hanxing Zhong Road,Zhongcun, Panyu,Guangzhou 511495 China
Tel：+86-020-84888946 Fax：+86-020-62824569

Koyama®
www.cbb-battery.com