Koyama®

General Purpose VRLA AGM Battery

NP180-6B

GENERAL FEATURES

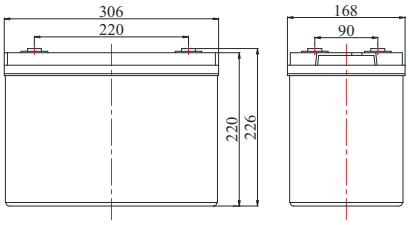
- Environmentally friendly
- Can be used at vertical or horizontal orientation
- High Reliability and Good Quality
- High gas recombination efficiency
- High Power Density
- Maintenance-Free Operation

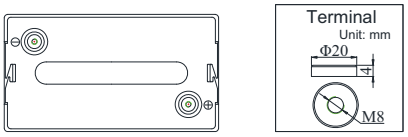
APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm)	306±1
Width(mm)	168±1
Heighth(mm)	220±1
Total Heighth(mm)	226±1
Weight(kg)	26.0±3%





COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T799	BS6290 part4
GB/T 19638	UL 1989

TECHNICAL SPECIFICATIONS

Nominal Voltage		6V(3 cells per unit)
Design Floating Life @25℃		10 Years
Nominal Capacity @25℃(10 hour rate@18.00A,10.80V)		180Ah
Capacity @25℃	20 hour rate (9.63A,10.5V)	192.6Ah
	5 hour rate (31.7A,10.5V)	158.5Ah
	1 hour rate (114.8A,9.6V)	114.8Ah
Internal Resistance	Full Charged Battery@25℃	≤2.9mΩ
Ambient Temperature	Discharge	-20℃~50℃
	Charge	-20℃~50℃
	Storage	-20℃~50℃
Max.Discharge Current@25℃		1800A(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 36.0A Voltage 6.8-6.9V
	Cycle Use	Initial Charging Current Less than 36.0A Voltage 7.2-7.45V

BATTERY DISCHARGE TABEL

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

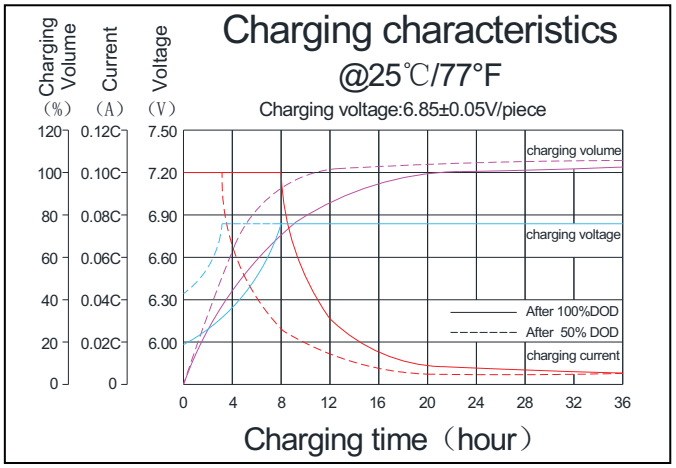
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	324.9	191.3	144.9	114.8	67.5	49.7	33.5	29.2	22.9	18.9	9.99
1.67V	306.9	181.3	139.3	111.4	65.3	48.1	32.9	28.6	22.7	18.5	9.90
1.70V	288.2	176.0	134.3	107.1	63.5	46.8	32.2	28.1	22.3	18.4	9.76
1.75V	270.0	168.3	128.3	102.8	61.9	45.7	31.7	27.5	22.0	18.2	9.63
1.80V	253.3	162.2	123.7	99.2	59.6	44.3	31.0	27.0	21.6	18.0	9.54

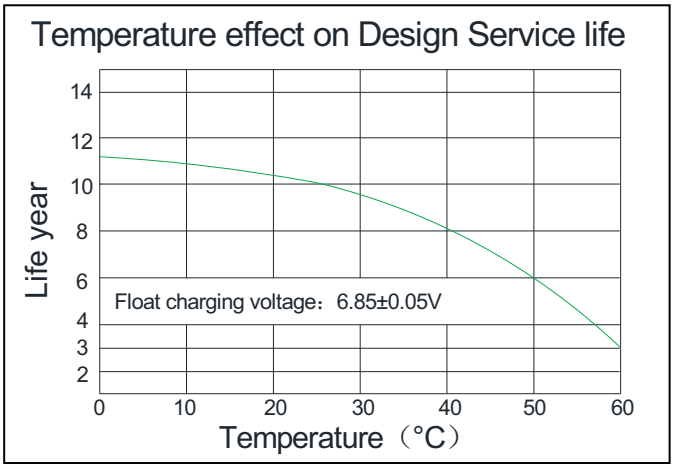
Discharge Constant Power per Cell (Watts at 25°C)

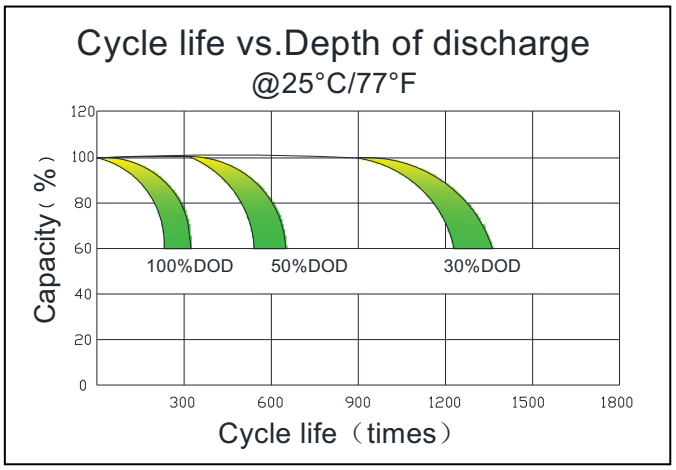
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.60V	621.2	380.0	275.2	220.3	128.0	94.9	64.6	56.3	44.6	36.9	19.7
1.67V	594.4	356.2	265.9	214.4	124.6	92.3	63.5	55.4	44.3	36.5	19.6
1.70V	553.9	348.5	257.4	207.0	121.7	90.2	62.6	54.7	43.7	36.2	19.3
1.75V	519.7	331.7	247.1	199.4	118.8	88.4	61.7	53.8	43.2	35.8	19.2
1.80V	487.8	318.2	238.9	193.0	114.8	85.9	60.5	52.9	42.7	35.6	19.0

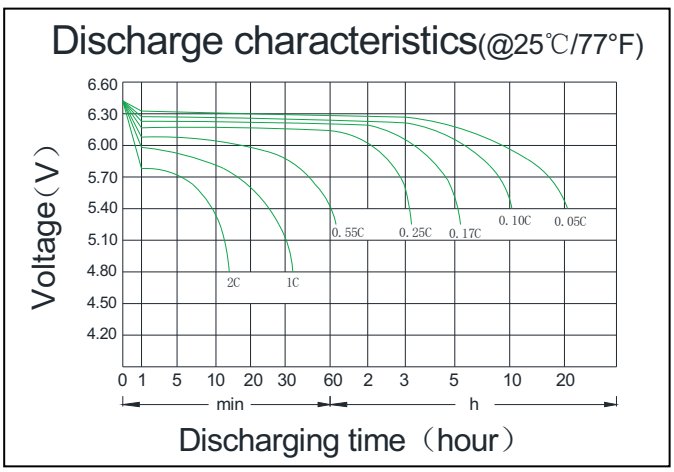
Note The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CBB** for the latest information.

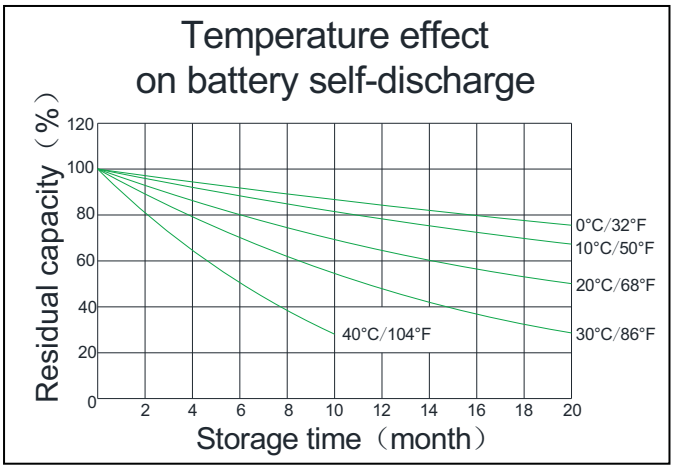
PERFORMANCE CHARACTERISTICS

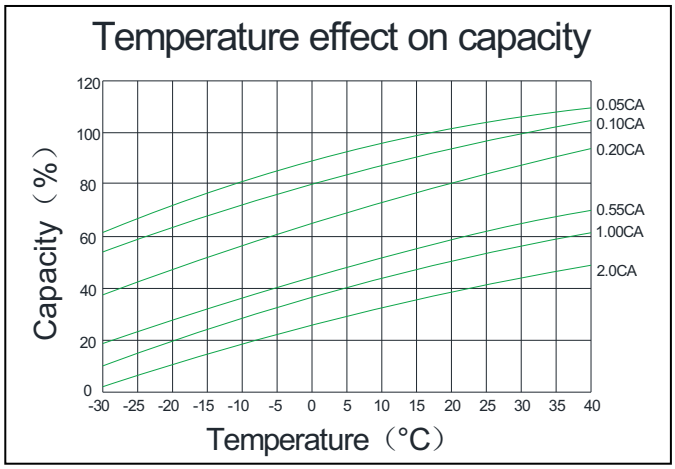












BATTERY CONSTRUCTION

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 M8(torque:9 ~11N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

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