Koyama® High Rate Battery NPH800-12

GENERAL FEATURES

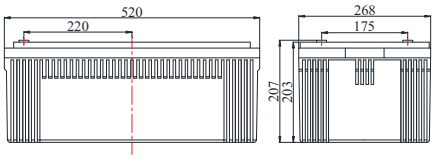
- Optimized plate achieve low IR
- 30% increased power output at 15 min
- Deep Discharge Recovery
- High Power Density
- Wide operating temperature

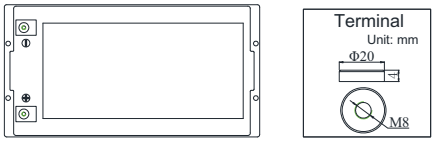
APPLICATIONS

- UPS & EPS
- Emergency lighting Systems
- Medical Equipment
- The office computer
- Cable TV Systems
- Alarm Systems

DIMENSIONS & WEIGHT

Length(mm)	520±1
Width(mm)	268±1
Heighth(mm)	203±1
Total Heighth(mm)	207±1
Weight(kg)	70±3%





COMPLIED STANDARDS

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

TECHNICAL SPECIFICATIONS

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25℃		12 Years
Watts/cell@25℃(@15min,10.02V)		800W
Capacity @25℃	10 hour rate (23.0A,10.8V)	230Ah
	3 hour rate (67.0A,10.5V)	201Ah
	1 hour rate (174.7A,9.6V)	174.7Ah
Internal Resistance	Full Charged Battery@25℃	≤3.3mΩ
Ambient Temperature	Discharge	-20℃~50℃
	Charge	-20℃~50℃
	Storage	-20℃~50℃
Max.Discharge Current@25℃		3450A(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 57.5A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 57.5A Voltage 14.4-14.9V

BATTERY DISCHARGE TABEL

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

F.V/Time	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
1.60V	1055.8	813.9	674.4	573.3	511.0	385.1	315.3	223.2	175.0	120.5	45.4
1.67V	1036.8	800.0	665.8	562.4	501.4	377.9	309.3	219.2	171.9	119.5	44.8
1.70V	1017.5	784.8	653.7	552.2	492.2	370.9	303.3	214.7	168.3	118.9	44.4
1.75V	998.5	769.9	633.0	542.0	483.2	364.0	298.0	210.7	166.3	117.9	43.5
1.80V	977.4	748.0	608.7	528.2	467.0	350.1	284.2	204.3	163.9	116.3	43.1

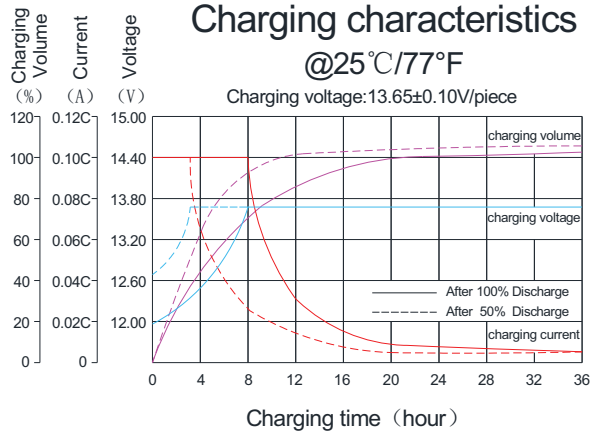
Discharge Constant Current per Cell (Amperes at 25°C)

F.V/Time	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
1.60V	642.7	493.6	409.8	356.7	301.9	223.5	174.7	126.1	100.5	70.7	25.0
1.67V	631.1	484.5	404.9	350.2	296.1	219.5	173.0	123.8	98.7	69.6	24.4
1.70V	619.1	475.8	397.4	343.7	290.7	215.4	170.3	121.3	96.7	68.1	24.2
1.75V	607.5	466.7	384.7	337.2	285.2	211.4	167.7	119.1	94.9	67.0	23.6
1.80V	597.8	457.7	374.0	324.3	279.7	209.1	164.7	115.7	92.2	65.0	23.0

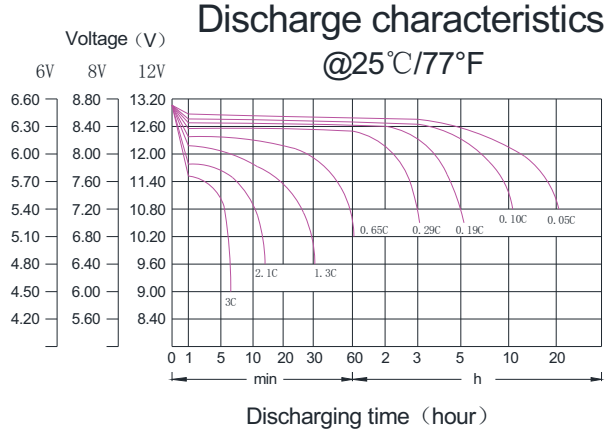
Note The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CBB** for the latest information.

PERFORMANCE CHARACTERISTICS

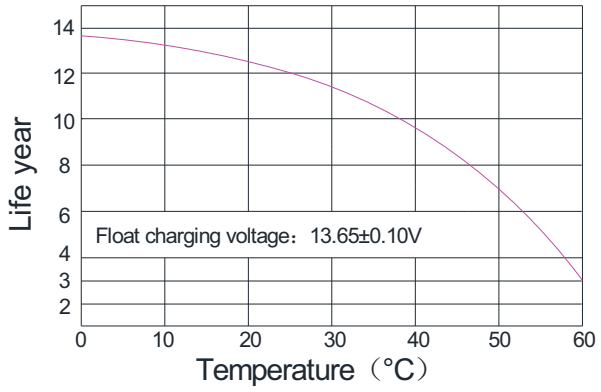
Charging characteristics @25℃/77°F



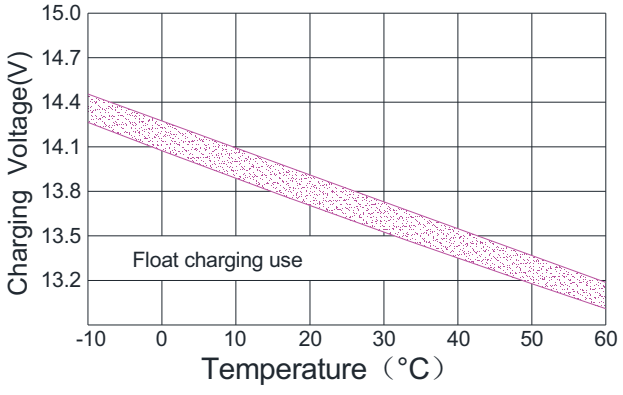
Discharge characteristics @25℃/77°F



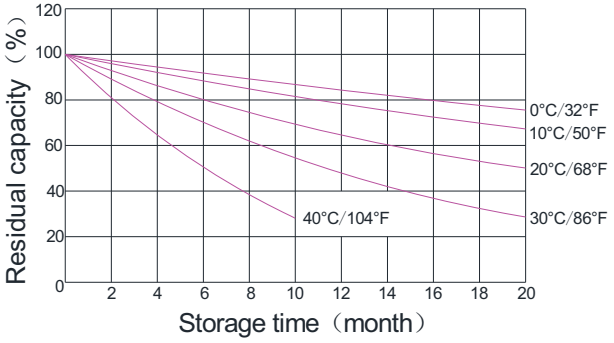
Temperature effect on Design Service life



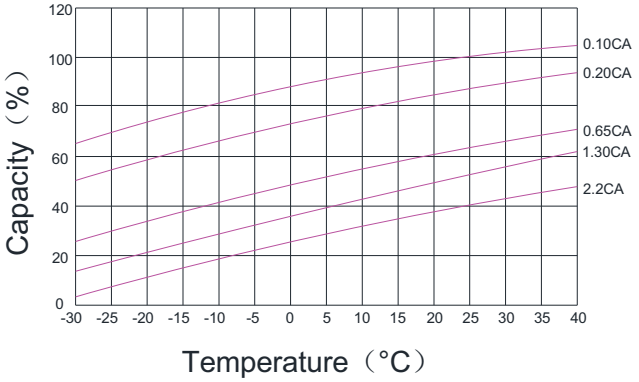
Temperature effect on Charging Voltage



Temperature effect on battery self-discharge



Temperature effect on capacity



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:12~14N.m	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

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