Koyama®

Flooded Battery

2 OPzS100 (2V100AH)

Specification

Nominal Voltage	2V
Capacity(10HR)	100.0AH (1.8V/cell, 20° C)
Dimension	Length 103±2mm (4.06 inches) Width 206±3mm (8.11 inches) Container Height 355±3mm (13.98 inches) Total Height (with Terminal) 410±3mm (16.14 inches)
Approx Weight	Without Electrolyte 9 kg (19.84lbs) With Electrolyte 14 kg (30.86lbs)
Container Material	SAN transparent container
Rated Capacity	100.0 AH/10.0A (10hr, 1.80V/cell, 20°C/68° F) 89.0 AH/17.8A (5hr, 1.75V/cell, 20°C/68° F) 77.1 AH/25.7A (3hr, 1.75V/cell, 20°C/68° F) 57.1 AH/57.1A (1hr, 1.60V/cell, 20°C/68° F)
Max. Discharge Current	800A (5s)
Internal Resistance	Approx 1.5mÙ
Operating Temp.Range	Discharg : -15~55°C (5~131°F) Charge : 0~45°C (32~113°F) Storage : -15~45°C (5~113°F)
Type and number of poles	M8/2
Charging	Floating voltage:2.23V~2.25V at 20 °C(68 °F)Temp. Boost charge:2.30V~2.40V at 20°C(68 °F)Temp. Charging current(max.): 0.1CA Temp.Coefficient -3mV/ °C
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77° F) 100% 0°C (32° F) 86%
Self Discharge (4%per month)	CBB OPzS batteries may be stored for up to 6 months at 20°C(68°F) and then a freshening charge is required.

Applications

- Telecommunications.
- Radio and cellular telephone relay stations.
- Emergency lighting systems.
- Power stations, Conventional power stations,
- Alternative power (solar, wind).
- Large UPS and computer back-up.
- Railway signalling.
- Maritime standby power on ships and ashore.
- Standby power
- Buoy lighting.
- Long service life, designed life 15-20 years.

Constant Current Discharge (Amperes) at 20°C (68°F)

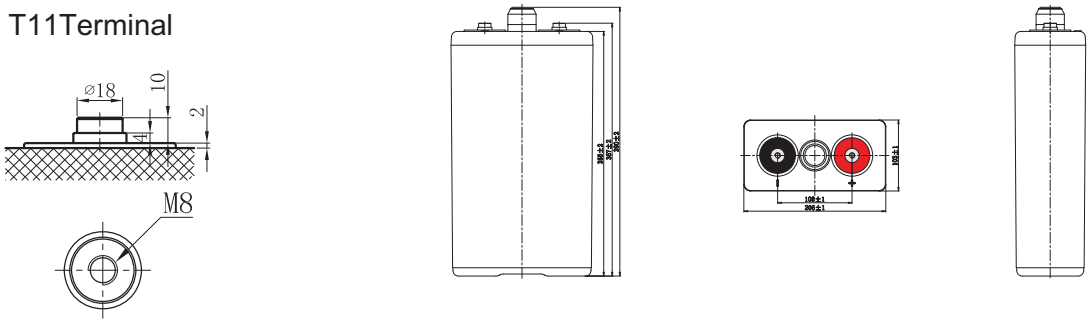
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	75.8	65.9	57.1	45.0	37.2	27.8	22.4	18.9	16.4	12.9	10.7	5.80
1.65V/cell	71.2	63.3	55.2	43.9	36.4	27.3	22.0	18.6	16.1	12.8	10.6	5.75
1.70V/cell	67.6	59.7	53.1	42.5	35.5	26.5	21.5	18.2	15.8	12.6	10.4	5.67
1.75V/cell	63.4	56.9	50.4	40.5	34.0	25.7	20.9	17.8	15.5	12.4	10.2	5.57
1.80V/cell	56.4	51.3	46.4	37.9	32.0	24.4	20.0	17.0	14.9	12.0	10.0	5.47
1.85V/cell	45.0	42.5	39.7	33.7	29.0	22.3	18.5	16.0	14.0	11.4	9.57	5.26

Constant Power Discharge (Watts) at 20°C (68°F)

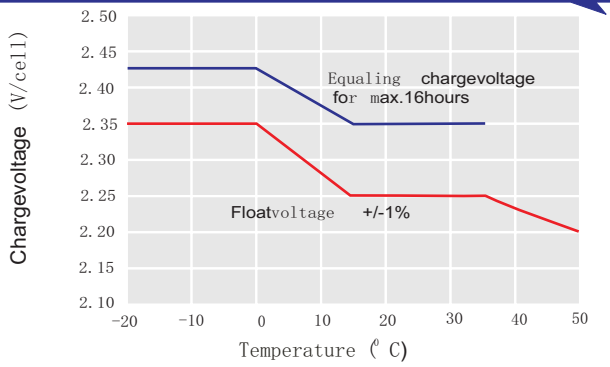
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	129.4	115.3	101.4	80.9	67.6	50.9	41.3	35.2	30.6	24.3	20.2	11.0
1.65V/cell	124.2	112.1	98.8	79.3	66.4	50.3	40.9	34.9	30.4	24.2	20.1	10.9
1.70V/cell	119.5	106.9	95.8	77.2	65.2	49.1	40.1	34.2	29.9	23.8	19.8	10.8
1.75V/cell	114.0	103.0	91.8	74.1	62.9	47.8	39.1	33.5	29.3	23.5	19.6	10.7
1.80V/cell	102.8	94.2	85.6	70.3	59.6	45.8	37.6	32.3	28.4	23.0	19.2	10.6
1.85V/cell	83.4	79.2	74.3	63.4	54.7	42.3	35.2	30.5	26.9	22.0	18.6	10.2

Dimensions

■ T11Terminal

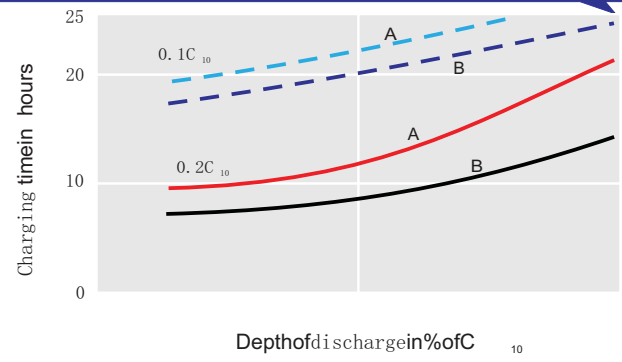


TemperatureEffectsinRelationtoChargeVoltage



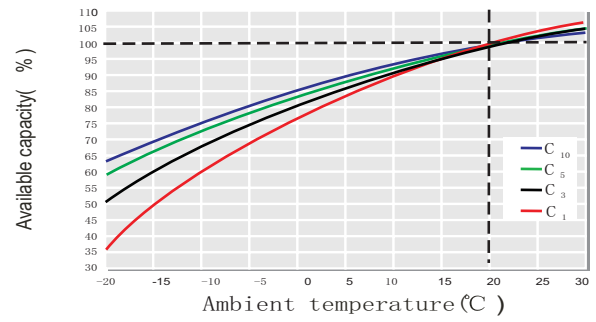
For continuous charging we recommend a voltage of 2.25V.
The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.

ChargingCharacteristics

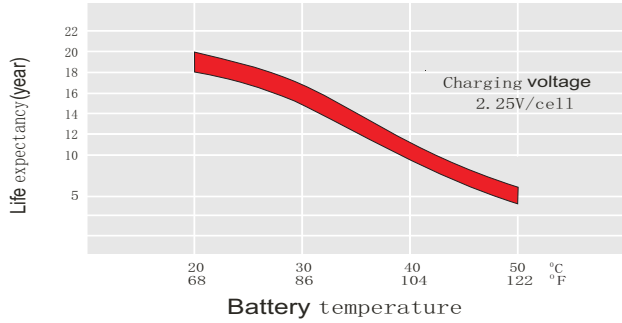


Chargevoltage:
A—2.25V/cell B 2.40V/cell
Stateofcharge100% Stateofcharge90%

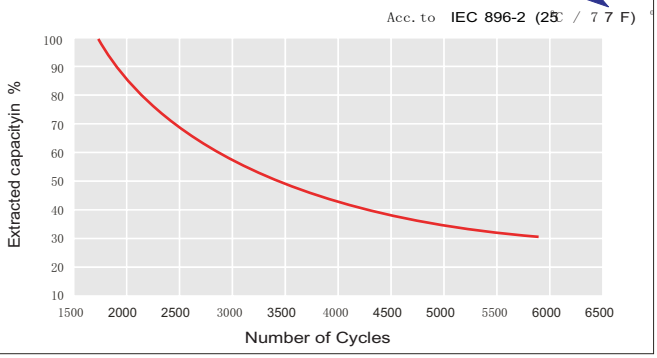
TemperatureEffectsinRelationtoBatteryCapacity



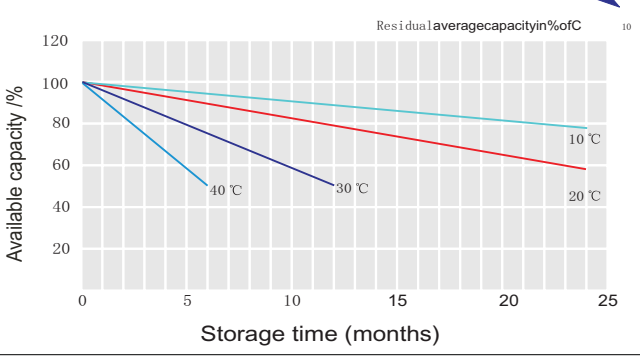
EffectofTemperatureonLongTermFloatLife



CycleLifeinRelationtoDepthofDischarge



GeneralRelationofCapacityVS.StorageTime



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