

YALÇIN GOLD BATTERY

16 OPzS 2000 (2V2000AH)

Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	2000.0AH (1.8V/cell,20 °C)	
Dimension	Length	399±3mm (15.77 inches)
	Width	214±3mm (8.42 inches)
	Container Height	772±3mm (30.4 inches)
	Total Height (with Terminal)	827±3mm (32.56 inches)
	Without Electrolyte	110.0 kg (242.55lbs)
Approx Weight	With Electrolyte	150.0 kg (330.75lbs)
	Container Material	SAN transparent container
Rated Capacity	2000.0 AH/200.0A	(10hr, 1.80V/cell, 20°C/68°F)
	1776.5 AH/355.3A	(5hr, 1.75V/cell, 20°C/68°F)
	1542.0 AH/514.0A	(3hr, 1.75V/cell, 20°C/68°F)
	1142.0 AH/1142.0A	(1hr, 1.60V/cell, 20°C/68°F)
Max. Discharge Current	16000A (5s)	
Internal Resistance	Approx 0.17mΩ	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	0~40°C (32~104°F)
	Storage	-15~40°C (5~104°F)
Type and number of poles	M8/6	
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	Gold OPzS batteries may be stored for up to 6 months at 20°C(68°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



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	30mi n	45mi n	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1516.0	1317.3	1142.0	900.0	744.0	556.0	447.0	378.0	327.2	258.9	213.9	116.0
1.65V/cell	1424.0	1266.7	1104.0	877.3	727.0	546.7	440.5	373.0	322.7	255.8	211.4	114.9
1.70V/cell	1352.0	1194.7	1062.0	849.3	710.0	530.7	430.5	364.9	316.6	251.3	207.9	113.3
1.75V/cell	1268.0	1138.7	1008.0	809.3	680.0	514.0	417.5	355.3	309.0	247.1	204.4	111.4
1.80V/cell	1128.0	1026.7	928.0	758.7	639.0	488.0	399.7	340.6	297.7	240.4	200.0	109.3
1.85V/cell	900.0	850.7	794.0	674.7	580.0	446.7	369.8	319.2	280.3	228.4	191.5	105.1

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

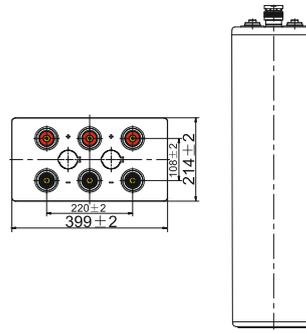
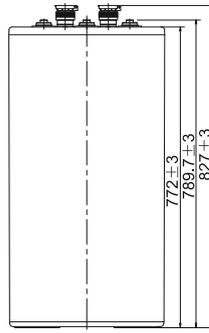
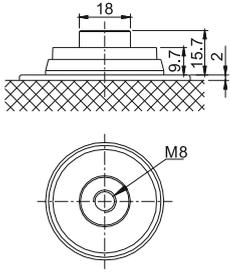
F.V/Time	30mi n	45mi n	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	2587.8	2305.3	2027.6	1617.9	1352.9	1018.3	825.9	703.2	612.6	486.9	403.8	219.9
1.65V/cell	2483.6	2242.9	1976.4	1585.1	1328.7	1006.2	818.0	697.4	607.3	483.4	401.1	218.9
1.70V/cell	2390.3	2137.6	1915.5	1544.7	1303.2	981.5	802.0	685.0	597.8	476.8	395.8	216.6
1.75V/cell	2279.6	2059.1	1835.4	1482.6	1257.3	956.7	781.8	670.0	585.3	470.4	391.0	214.0
1.80V/cell	2055.4	1884.9	1711.3	1405.8	1192.0	915.2	752.9	645.4	567.3	460.1	384.6	211.1
1.85V/cell	1667.7	1584.5	1485.8	1267.2	1094.0	846.7	703.8	610.1	538.5	440.7	371.1	204.7

Specifications subject to change without notice.

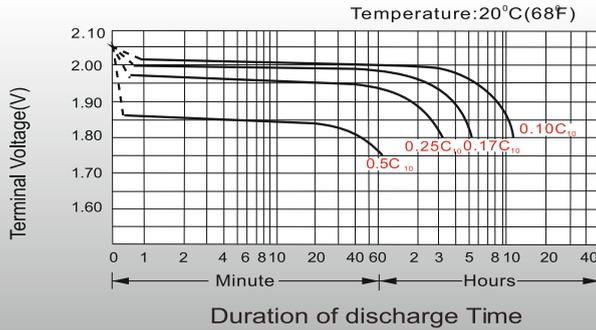


Dimensions

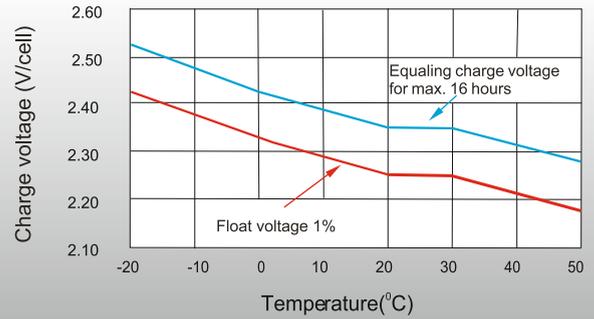
Terminal



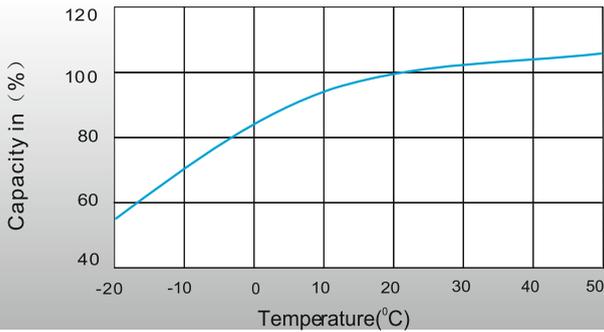
Discharge Characteristics



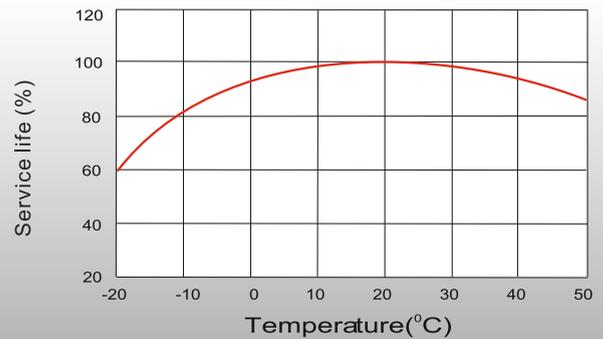
Charge voltage Vs ambient temperature curve



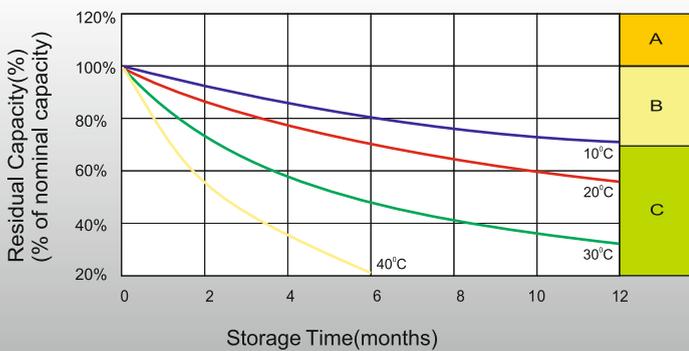
Discharge capacity Vs Ambient temperature curve (I10A)



Relation curves of service life and ambient temperature



Self Discharge Characteristics



- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optimal charging way as below :
 1. Charge for above 3 days at limited current 0.1CA and constant voltage 2.25V/cell.
 2. Charge for above 20 hours at limited current 0.1CA and constant voltage 2.45V/cell.
 3. Charge for 8~10 hours at limited current 0.05CA .
- C** Supplementary charge may often fail to recover the capacity .
The battery should never be left standing till this is reached.

Merkez

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Ostim / ANKARA

Tel&Fax

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Servis

100. Yıl Bulvarı 1234. Sokak
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Ostim / ANKARA

Fabrika

Kırıkkale OSB Kızılırmak Caddesi
4. Sokak No: 6
Yahşihan / KIRIKKALE