

# YALÇIN GOLD BATTERY

## 24 OPzS 3000 (2V3000AH)

### Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	3000.0AH (1.8V/cell,20°C)	
Dimension	Length	576 ± 3mm (22.7 inches)
	Width	212 ± 3mm (8.35 inches)
	Container Height	772 ± 3mm (30.4 inches)
	Total Height (with Terminal)	827 ± 3mm (32.56 inches)
Approx Weight	Without Electrolyte	164.8 kg (362.56lbs)
	With Electrolyte	224.8 kg (494.56lbs)
Container Material	SAN transparent container	
Rated Capacity	3000.0 AH/300.0A	(10hr, 1.80V/cell, 20°C/68°F)
	2664.5 AH/532.9A	(5hr, 1.75V/cell, 20°C/68°F)
	2313.0 AH/771.0A	(3hr, 1.75V/cell, 20°C/68°F)
	1713.0 AH/1713.0A	(1hr, 1.60V/cell, 20°C/68°F)
Max. Discharge Current	24000A (5s)	
Internal Resistance	Approx 0.11mΩ	
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	M8/8	
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	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	2274.0	1976.0	1713.0	1350.0	1116.0	834.0	670.5	567.0	490.8	388.4	320.8	174.0
1.65V/cell	2136.0	1900.0	1656.0	1316.0	1090.5	820.0	660.8	559.5	484.1	383.6	317.1	172.4
1.70V/cell	2028.0	1792.0	1593.0	1274.0	1065.0	796.0	645.8	547.3	474.9	376.9	311.9	170.0
1.75V/cell	1902.0	1708.0	1512.0	1214.0	1020.0	771.0	626.3	532.9	463.5	370.7	306.7	167.1
1.80V/cell	1692.0	1540.0	1392.0	1138.0	958.5	732.0	599.6	510.9	446.5	360.5	300.0	164.0
1.85V/cell	1350.0	1276.0	1191.0	1012.0	870.0	670.0	554.7	478.8	420.5	342.7	287.2	157.7

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

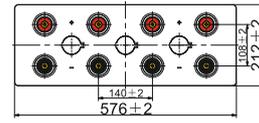
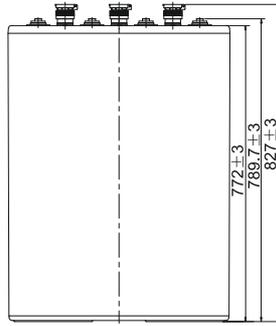
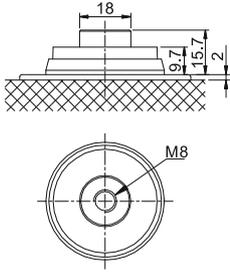
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	3881.7	3458.0	3041.4	2426.9	2029.4	1527.5	1238.8	1054.8	918.9	730.3	605.8	329.8
1.65V/cell	3725.4	3364.3	2964.6	2377.7	1993.0	1509.4	1226.9	1046.1	911.0	725.0	601.7	328.3
1.70V/cell	3585.5	3206.4	2873.3	2317.0	1954.8	1472.3	1203.1	1027.5	896.7	715.2	593.7	324.9
1.75V/cell	3419.3	3088.7	2753.0	2223.9	1885.9	1435.0	1172.7	1005.0	878.0	705.7	586.5	321.0
1.80V/cell	3083.2	2827.3	2567.0	2108.7	1788.0	1372.8	1129.4	968.1	850.9	690.1	576.9	316.6
1.85V/cell	2501.6	2376.7	2228.6	1900.8	1640.9	1270.0	1055.7	915.1	807.7	661.0	556.7	307.0

Specifications subject to change without notice.

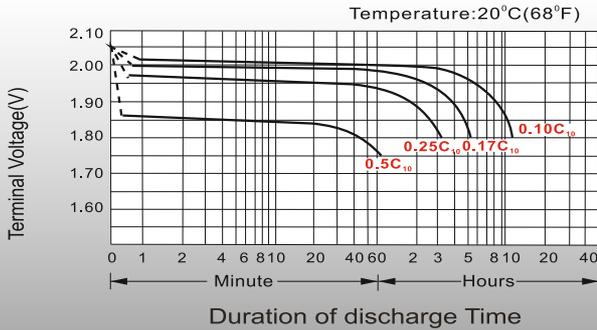


## Dimensions

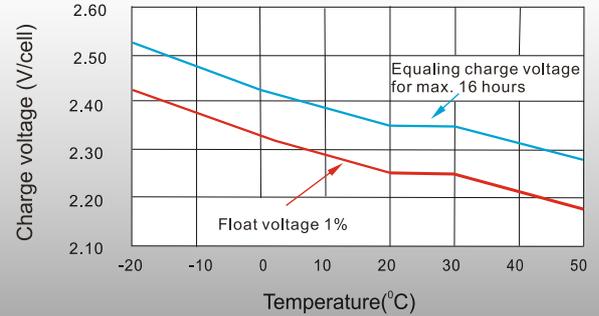
### Terminal



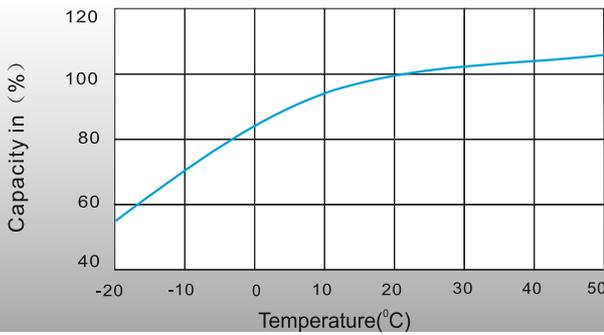
## Discharge Characteristics



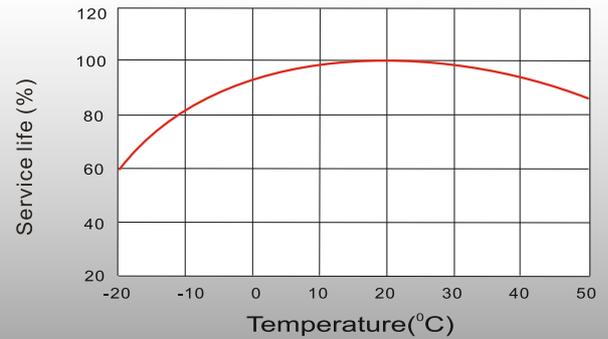
## Charge voltage Vs ambient temperature curve



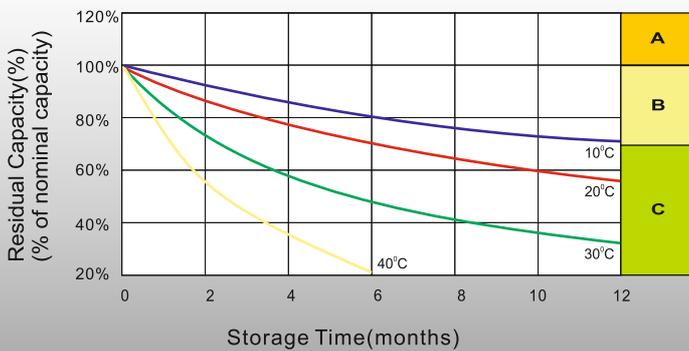
## Discharge capacity Vs Ambient temperature curve (I10A)



## 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. Optional charging way as below:
  1. Charged for above 3 days at limited current 0.1CA and constant voltage 2.25V/cell.
  2. Charged for above 20 hours at limited current 01CA and constant voltage 2.45V/cell.
  3. Charged 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**

100. Yıl Bulvarı 1232. Sokak  
(Eski 40. Sokak) No: 65  
Ostim / ANKARA

**Tel&Fax**

T. (0.312) 354 16 45  
(0.312) 385 55 60  
F. (0.312) 354 07 97

**Servis**

100. Yıl Bulvarı 1234. Sokak  
(Eski 57. Sokak) No: 91  
Ostim / ANKARA

**Fabrika**

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