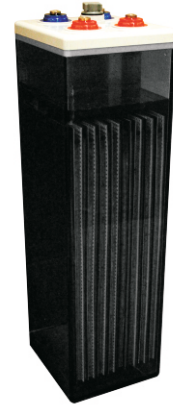


# YALÇIN GOLD BATTERY

## 8 OPzS 800 (2V800AH)

### Specification

Nominal Voltage	2V	
Capacity(10HR)	800.0AH (1.8V/cell,20°C)	
Dimension	Length	191 ± 2mm (7.52 inches)
	Width	210 ± 3mm (8.27 inches)
	Container Height	646 ± 3mm (25.4 inches)
	Total Height (with Terminal)	701 ± 3mm (27.6 inches)
	Without Electrolyte	46.9 kg (103.2lbs)
Approx Weight	With Electrolyte	62.9kg (138.4lbs)
	SAN transparent container	
Rated Capacity	800.0 AH/80.0A	(10hr, 1.80V/cell, 25°C/77°F)
	710.5 AH/142.1A	(5hr, 1.75V/cell, 25°C/77°F)
	616.8 AH/205.6A	(3hr, 1.75V/cell, 25°C/77°F)
	456.8 AH/456.8A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	6400A (5s)	
Internal Resistance	Approx 0.35mΩ	
Operating Temp.Range	Discharge	-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	M8/4	
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)	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	606.4	526.9	456.8	360.0	297.6	222.4	178.8	151.2	130.9	103.6	85.6	46.4
1.65V/cell	569.6	506.7	441.6	350.9	290.8	218.7	176.2	149.2	129.1	102.3	84.6	46.0
1.70V/cell	540.8	477.9	424.8	339.7	284.0	212.3	172.2	146.0	126.6	100.5	83.2	45.3
1.75V/cell	507.2	455.5	403.2	323.7	272.0	205.6	167.0	142.1	123.6	98.8	81.8	44.6
1.80V/cell	451.2	410.7	371.2	303.5	255.6	195.2	159.9	136.2	119.1	96.1	80.0	43.7
1.85V/cell	360.0	340.3	317.6	269.9	232.0	178.7	147.9	127.7	112.1	91.4	76.6	42.0

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

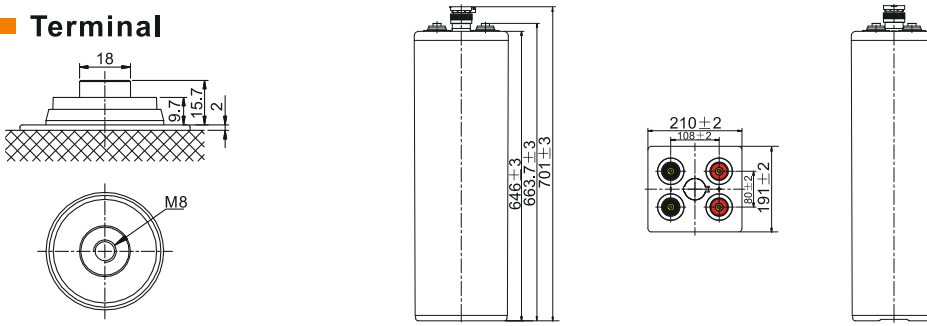
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1035.1	922.1	811.0	647.2	541.2	407.3	330.4	281.3	245.1	194.8	161.5	88.0
1.65V/cell	993.4	897.2	790.6	634.0	531.5	402.5	327.2	278.9	242.9	193.3	160.4	87.6
1.70V/cell	956.1	855.0	766.2	617.9	521.3	392.6	320.8	274.0	239.1	190.7	158.3	86.7
1.75V/cell	911.8	823.7	734.1	593.0	502.9	382.7	312.7	268.0	234.1	188.2	156.4	85.6
1.80V/cell	822.2	753.9	684.5	562.3	476.8	366.1	301.2	258.2	226.9	184.0	153.8	84.4
1.85V/cell	667.1	633.8	594.3	506.9	437.6	338.7	281.5	244.0	215.4	176.3	148.5	81.9

Specifications subject to change without notice.

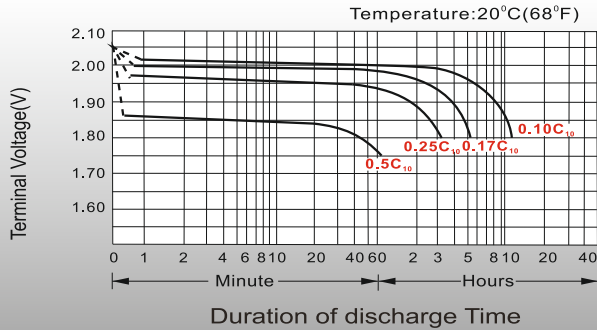


## Dimensions

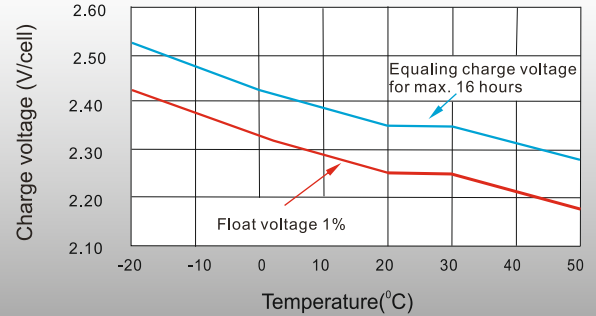
### Terminal



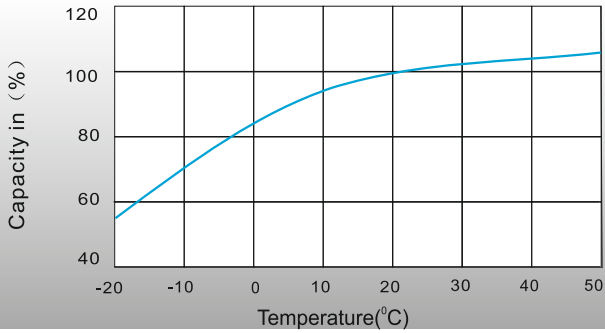
### Discharge Characteristics



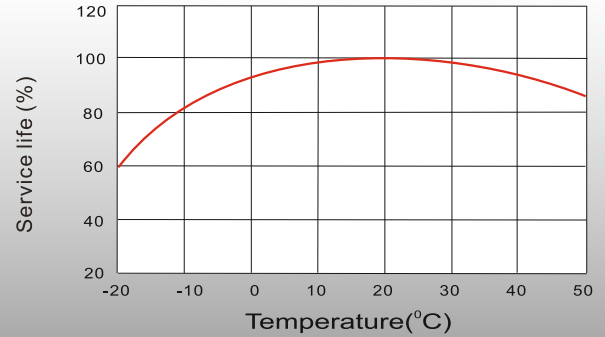
### Charge voltage Vs ambient temperature curve



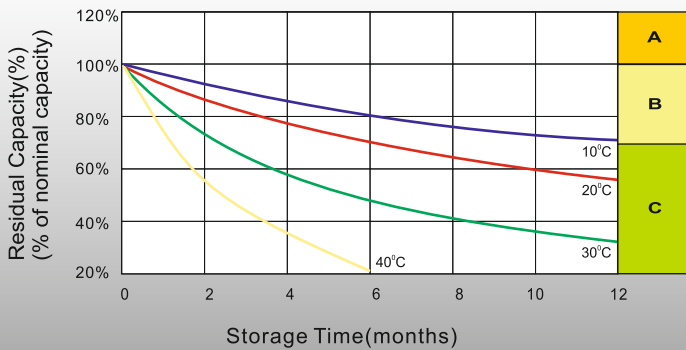
### Discharge capacity Vs Ambient temperature curve (I10A)



### 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