

YALÇIN GOLD BATTERY

GB12002.3 (12V2.3AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	2.3AH	
Dimensions	Length	178 ± 2mm (7.00 inches)
	Width	35 ± 1mm (1.38 inches)
	Container Height	60 ± 1mm (2.36 inches)
	Total Height (with Terminal)	66 ± 1mm (2.60 inches)
Approx Weight	Approx 0.96 kg (2.12lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity	2.30 AH/0.115A	(20hr , 1.80V/cell,25℃/77℉)
	2.14AH/0.214A	(10hr, 1.80V/cell,25℃/77℉)
	1.93 AH/0.386A	(5hr, 1.75V/cell,25℃/77℉)
	1.69 AH/0.563A	(3hr, 1.75V/cell,25℃/77℉)
	1.40 AH/1.40A	(1hr, 1.60V/cell,25℃/77℉)
Max. Discharge Current	34.5A (5s)	
Internal Resistance	Approx 90m Ω	
Operating Temp.Range	Discharge : -15 ~ 50℃ (5 ~ 122℉)	
	Charge : 0 ~ 40℃ (32 ~ 104℉)	
	Storage : -15 ~ 40℃ (5 ~ 104℉)	
Nominal Operating Temp. Range	25 ± 3℃ (77 ± 5℉)	
Cycle Use	Initial Charging Current less than 0.69A.Voltage	
	14.4V~15.0V at 25 °C(77 °F)Temp. Coefficient -30mV/℃	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25 °C(77 °F)Temp. Coefficient -20mV/℃	
Capacity affected by Temperature	40 °C (104 °F)	103%
	25 °C (77 °F)	100%
	0 °C (32 °F)	86%
Self Discharge	Yalcin Gold 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

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backuppowersupply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system

Constant Current Discharge (Amperes) at 25 C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	4.42	3.08	2.54	2.20	1.77	1.36	1.11	0.679	0.517	0.425	0.361	0.312	0.248	0.207	0.114
1.80V/cell	5.43	3.67	2.94	2.49	1.96	1.48	1.20	0.721	0.544	0.447	0.376	0.326	0.258	0.214	0.115
1.75V/cell	6.43	4.15	3.25	2.71	2.09	1.57	1.26	0.752	0.563	0.461	0.386	0.334	0.265	0.218	0.116
1.70V/cell	7.30	4.58	3.51	2.91	2.19	1.63	1.31	0.783	0.581	0.472	0.396	0.342	0.269	0.222	0.118
1.65V/cell	8.05	4.93	3.72	3.06	2.29	1.70	1.37	0.806	0.596	0.482	0.405	0.349	0.273	0.225	0.120
1.60V/cell	8.45	5.13	3.87	3.15	2.35	1.74	1.40	0.831	0.610	0.494	0.413	0.356	0.279	0.229	0.121

Constant Power Discharge (Watts/cell) at 25 C (77°F)

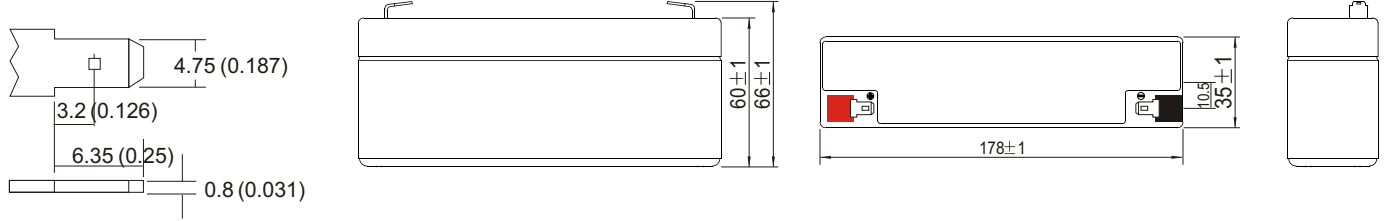
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	8.33	5.86	4.88	4.27	3.45	2.66	2.19	1.34	1.03	0.848	0.722	0.627	0.500	0.416	0.230
1.80V/cell	10.1	6.93	5.61	4.79	3.79	2.89	2.34	1.42	1.07	0.886	0.748	0.650	0.515	0.428	0.231
1.75V/cell	11.8	7.76	6.13	5.17	4.02	3.05	2.45	1.47	1.11	0.908	0.764	0.662	0.526	0.434	0.232
1.70V/cell	13.3	8.46	6.58	5.51	4.19	3.15	2.54	1.52	1.14	0.925	0.778	0.674	0.530	0.439	0.235
1.65V/cell	14.5	8.99	6.87	5.73	4.33	3.25	2.63	1.56	1.16	0.940	0.792	0.684	0.536	0.443	0.237
1.60V/cell	14.9	9.24	7.08	5.84	4.41	3.29	2.67	1.60	1.18	0.957	0.803	0.694	0.545	0.448	0.237



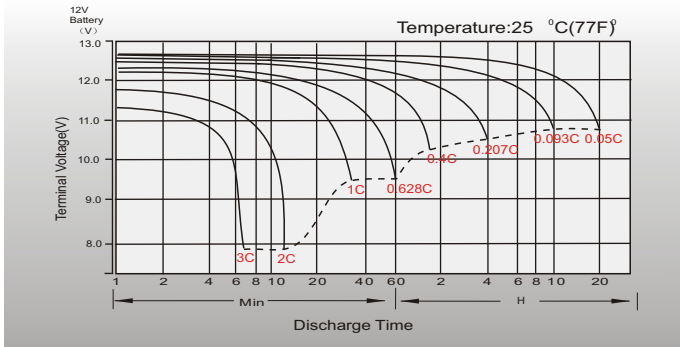
Dimensions

T1 Terminal

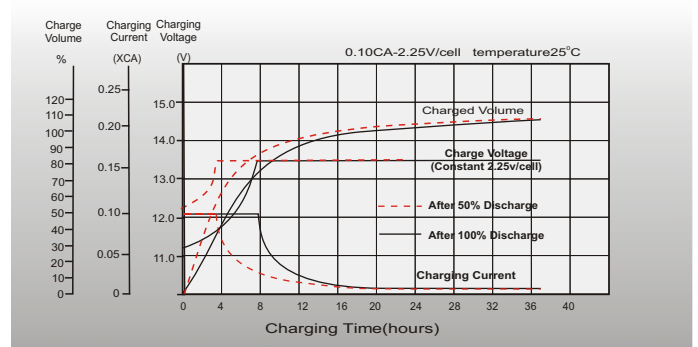
Unit: mm [inches]



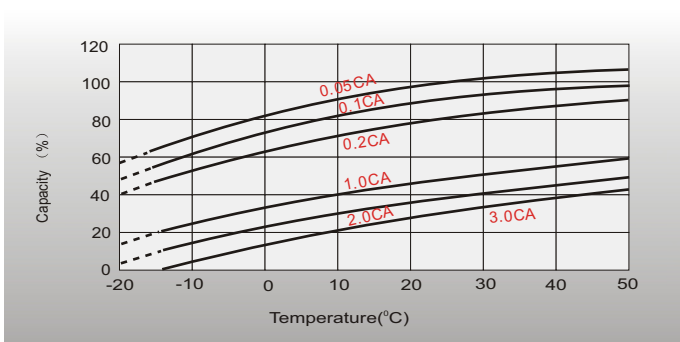
Discharge Characteristics



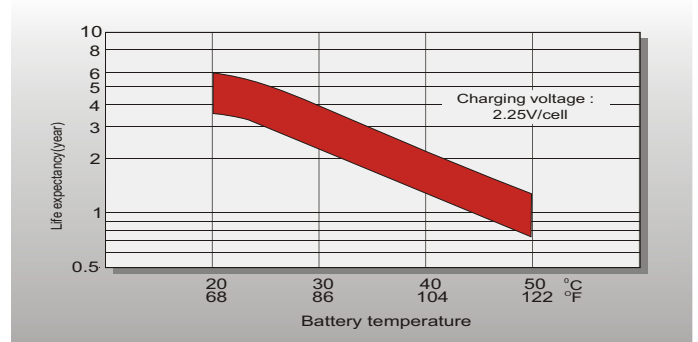
Float Charging Characteristics



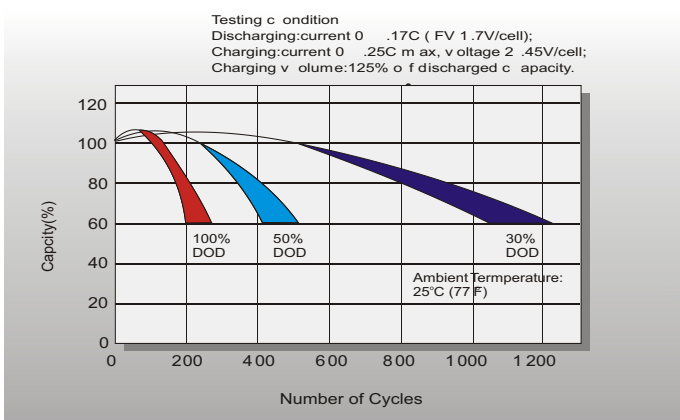
Temperature Effects n Relatton to Battery Capacity



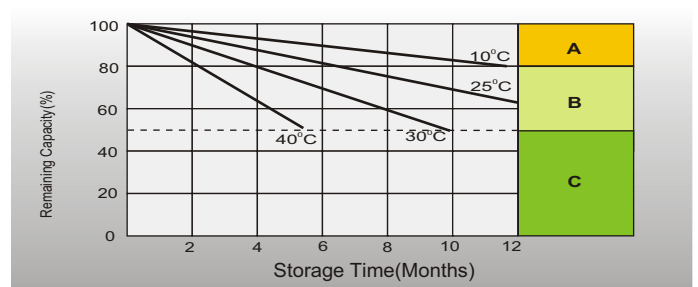
Effect of Temperature on Long Term Float LLe



Cycle Life in Relation to Depth of Discharge



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 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA 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



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Servis

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



Fabrika

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