

YALÇIN GOLD BATTERY

YGG12080.0 (12V80AH)

GENERAL FEATURES

- ◆ Oxygen recombination technology: maintenance-free, no need to add water or acid
- ◆ The patent grid alloy: less gassing, low self-discharge, excellent corrosion resistance
- ◆ Special paste formula: additives for deep discharge, long cycle life
- ◆ High quality AGM separator: extend cycle life and prevent micro short circuit
- ◆ The patent Nano silica electrolytes, extend cycle life and improve the deep discharge performance
- ◆ ABS container: increase the strength of battery (Flame-retardant ABS UL94-V0 is optional)

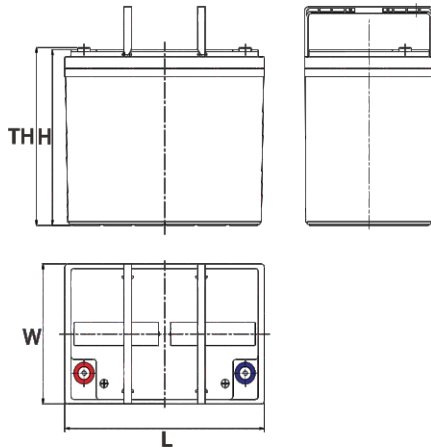
Application

- ◆ Renewable energy system
- ◆ Hybrid solar power system
- ◆ Uninterrupted Power Supply (UPS)
- ◆ Communications and electric equipment
- ◆ Emergency lighting equipment
- ◆ Fire alarm and security systems
- ◆ Robots, control equipment, and other factory automation equipment
- ◆ Emergency power supply (EPS)
- ◆ Various power toy and hobby equipment
- ◆ Lighting equipment

Dimension

Unit:mm

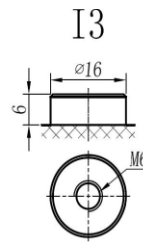
Length	306±2mm	/	12.05inch
Width	168±2mm	/	6.61inch
Container Height	215±3mm	/	8.46inch
Total Height	215±3mm	/	8.46inch



Terminal

Unit:mm

Terminal Type: I3



Weight

27kg 59.52lbs

Merkez

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

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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

YALÇIN GOLD BATTERY

Specificaion

Nominal Voltage	12V
Rated Capacity(25°C)	85Ah 20hr Rate(1.80V/cell) 80Ah 10hr Rate(1.80V/cell) 69Ah 5hr Rate(1.75V/cell) 64Ah 3hr Rate(1.70V/cell) 49Ah 1hr Rate(1.60V/cell)
Container Material	ABS (Flame-retardant ABS UL94-V0 is optional)
Operating Temperature Range	Discharge -20 ~ +50°C Charge 0 ~ +40°C Storage -15 ~ +40°C
Capacity Effected by Temperature	40°C / 104°F 106% 25°C / 77°F 100% 0°C / 32°F 86% -10°C / 14°F 65%
Charge Voltage	Float Voltage 2.25 -2.30V/cell@25°C, Tem. Coefficient: -3mV/cell/°C Equalize Voltage 2.35 -2.40V/cell@25°C, Tem. Coefficient: -3mV/cell/°C Cycle Voltage 2.40 -2.50V/cell@25°C, Tem. Coefficient: -5mV/cell/°C
Max Charging Current	24A (0.3C)
Max. Discharge Current (5S)	960A
Internal Resistance	6mΩ
Self Discharge	<3%, YG series stored at 25 ° C require a supplementary charge every six months, the charging interval would shrink when the ambient temperature went higher

Discharge Performance

Constant Current Discharge Table (25°C/77°F) Unit: A

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	134.3	105.6	89.8	75.1	59.7	45.9	37.69	23.99	19.00	15.50	12.50	10.90	8.84	7.56	4.207
1.80V/cell	180.3	134.9	108.5	88.8	70.4	53.3	42.19	26.19	20.40	16.60	13.40	11.70	9.38	8.01	4.247
1.75V/cell	203.3	148.2	118.5	95.5	73.2	55.3	44.19	27.19	20.80	16.90	13.80	12.00	9.54	8.09	4.288
1.70V/cell	223.9	161.6	126.5	100.4	76.1	57.5	45.59	28.29	21.40	17.40	14.10	12.20	9.67	8.17	4.370
1.65V/cell	246.8	174.4	134.6	106.6	80.3	59.0	47.09	29.09	22.29	18.00	14.50	12.50	9.82	8.34	4.431
1.60V/cell	272.2	189.3	143.9	113.6	84.8	61.5	48.79	29.99	22.99	18.50	15.00	12.80	9.92	8.43	4.452

Constant Power Discharge Table (25°C/77°F) Unit: W


F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	245.5	195.0	167.6	141.6	113.8	86.8	71.68	46.05	36.48	29.88	24.16	21.21	17.24	14.91	8.160
1.80V/cell	326.2	246.3	199.7	164.9	132.2	100.3	79.96	49.89	39.05	31.75	25.83	22.69	18.33	15.82	8.230
1.75V/cell	359.9	266.3	215.5	175.7	136.2	103.0	83.22	51.57	39.64	32.34	26.42	23.19	18.53	15.92	8.300
1.70V/cell	385.3	283.7	226.9	183.2	140.9	106.7	85.58	53.44	40.62	33.13	27.02	23.68	18.83	16.12	8.450
1.65V/cell	418.9	303.3	239.4	193.3	147.4	108.4	87.85	54.62	42.20	34.21	27.71	24.08	19.03	16.42	8.550
1.60V/cell	451.3	321.9	251.8	203.6	154.5	112.4	90.41	56.20	43.28	35.10	28.49	24.58	19.23	16.52	8.580

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