

# YALÇIN GOLD BATTERY

## GDC12200.0 (12V200AH)

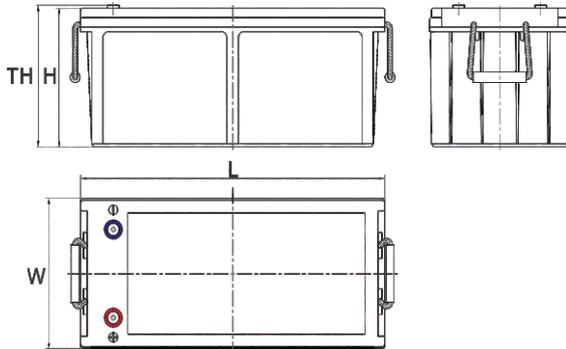
### GENERAL FEATURES

- ◆ 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)

### Dimension

Unit:mm

|                  |                     |
|------------------|---------------------|
| Length           | 520±2mm / 20.47inch |
| Width            | 239±2mm / 9.41inch  |
| Container Height | 220±3mm / 8.66inch  |
| Total Height     | 225±3mm / 8.86inch  |



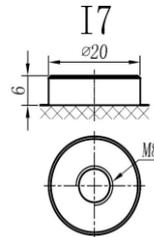
### Application

- ◆ 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

### Terminal

Unit:mm

Terminal Type: I7



### Weight

61.5kg

 **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

## Specificaion

|   |  |   |
|---|--|---|
| <b>Nominal Voltage</b>                  | 12V  |   |
|   | 212Ah  | 20hr Rate(1.80V/cell)                                 |
|   | 200Ah  | 10hr Rate(1.80V/cell)                                 |
| <b>Rated Capacity(25°C)</b>             | 172Ah  | 5hr Rate(1.75V/cell)                                  |
|   | 160Ah  | 3hr Rate(1.70V/cell)                                  |
|   | 122Ah  | 1hr Rate(1.60V/cell)                                  |
| <b>Container Material</b>               | ABS (Flame-retardant ABS UL94-V0 is optional)  |   |
| <b>Operating Temperature Range</b>      | <b>Discharge</b>   | -20 ~ +50°C   |
|   | <b>Charge</b>  | 0 ~ +40°C   |
|   | <b>Storage</b>   | -15 ~ +40°C   |
| <b>Capacity Effected by Temperature</b> | <b>40°C / 104°F</b>  | 106%  |
|   | <b>25°C / 77°F</b>   | 100%  |
|   | <b>0°C / 32°F</b>  | 86%   |
|   | <b>-10°C / 14°F</b>  | 65%   |
| <b>Charge Voltage</b>                   | <b>Float Voltage</b>   | 2.25 -2.30V/cell@25°C, Tem. Coefficient: -3mV/cell/°C |
|   | <b>Equalize Voltage</b>  | 2.35 -2.40V/cell@25°C, Tem. Coefficient: -3mV/cell/°C |
|   | <b>Cycle Voltage</b>   | 2.40 -2.50V/cell@25°C, Tem. Coefficient: -5mV/cell/°C |
| <b>Max Charging Current</b>             | 60A (0.3C)   |   |
| <b>Max. Discharge Current (5S)</b>      | 2000A  |   |
| <b>Internal Resistance</b>              | 2.7mΩ  |   |
| <b>Self Discharge</b>                   | <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   | 10min | 15min | 20min | 30min | 45min | 1h     | 2h    | 3h   | 4h   | 5h   | 6h   | 8h    | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|--------|-------|------|------|------|------|-------|------|------|
| 1.85V/cell | 273.1 | 235.4 | 200.7 | 151.9 | 114.5 | 94.28  | 60.09 | 46.2 | 37.6 | 31.3 | 27.2 | 22.10 | 18.9 | 10.5 |
| 1.80V/cell | 337.4 | 277.0 | 231.3 | 176.1 | 133.2 | 105.58 | 65.49 | 50.6 | 40.6 | 33.6 | 29.2 | 23.40 | 20.0 | 10.6 |
| 1.75V/cell | 370.6 | 296.3 | 245.4 | 185.6 | 138.3 | 110.48 | 67.98 | 52.0 | 41.7 | 34.5 | 30.0 | 23.80 | 20.2 | 10.7 |
| 1.70V/cell | 404.0 | 316.4 | 259.0 | 192.7 | 143.7 | 113.97 | 70.68 | 53.5 | 42.7 | 35.3 | 30.6 | 24.20 | 20.4 | 10.9 |
| 1.65V/cell | 435.9 | 336.4 | 276.0 | 200.7 | 147.3 | 117.77 | 72.68 | 55.8 | 44.2 | 36.3 | 31.3 | 24.70 | 20.8 | 11.0 |
| 1.60V/cell | 467.3 | 359.7 | 291.9 | 211.9 | 153.6 | 121.97 | 75.08 | 57.5 | 45.5 | 37.3 | 32.0 | 25.10 | 21.0 | 11.1 |

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

| F.V/Time   | 10min | 15min | 20min | 30min | 45min | 1h     | 2h    | 3h     | 4h    | 5h    | 6h    | 8h    | 10h   | 20h    |
|------------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|--------|
| 1.85V/cell | 504.5 | 439.3 | 378.4 | 289.4 | 217.1 | 179.35 | 115.0 | 88.84  | 72.37 | 60.44 | 53.02 | 43.21 | 37.44 | 20.400 |
| 1.80V/cell | 615.8 | 510.0 | 429.7 | 330.5 | 250.5 | 199.76 | 124.6 | 96.73  | 77.79 | 64.58 | 56.68 | 45.68 | 39.54 | 20.600 |
| 1.75V/cell | 665.8 | 538.8 | 451.4 | 345.5 | 257.5 | 208.04 | 128.8 | 99.09  | 79.57 | 66.26 | 58.07 | 46.38 | 39.94 | 20.700 |
| 1.70V/cell | 709.2 | 567.2 | 472.8 | 356.6 | 266.8 | 213.96 | 133.7 | 101.66 | 81.44 | 67.64 | 59.16 | 46.97 | 40.24 | 21.100 |
| 1.65V/cell | 758.4 | 598.5 | 500.2 | 368.6 | 271.0 | 219.58 | 136.6 | 105.50 | 83.91 | 69.22 | 60.25 | 47.96 | 41.04 | 21.400 |
| 1.60V/cell | 794.4 | 629.5 | 523.3 | 386.3 | 281.0 | 226.18 | 140.5 | 108.26 | 86.08 | 70.99 | 61.34 | 48.56 | 41.44 | 21.500 |

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