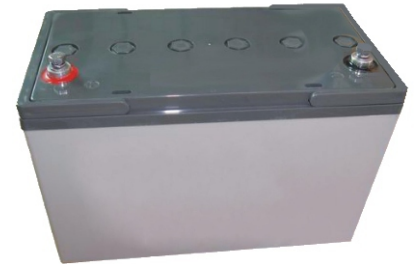


GDC12100.0 (12V100AH)

Specification

Nominal Voltage	12V
Nominal Capacity(20HR)	96.0AH
Dimension	Length 330±3mm (12.99 inches)
	Width 173±2mm (6.81 inches)
	Container Height 212±3mm (8.35 inches)
	Total Height (with Terminal) 218±3mm (8.58 inches)
Approx Weight	Approx 31.0 kg (68.4lbs)
Terminal	T11
Container Material	ABS
Rated Capacity	96.0 AH/4.80A (20hr, 1.80V/cell, 25°C/77°F)
	90.0 AH/9.00A (10hr, 1.75V/cell, 25°C/77°F)
	80.0 AH/16.0A (5hr, 1.75V/cell, 25°C/77°F)
	69.6 AH/23.2A (3hr, 1.75V/cell, 25°C/77°F)
	55.0 AH/55.0A (1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	1000A (5s)
Internal Resistance	Approx 5.9mΩ
Operating Temp. Range	Discharge : -20~55°C (-4~131°F)
	Charge : 0~40°C (32~104°F)
	Storage : -20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 24.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C
Standby Use	
Capacity affected by Temperature	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	Yalçın Gold series batteries may be stored for up to 9 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Applications

- ◆ Telecommunications
- ◆ Solar system
- ◆ Wind power system
- ◆ Wheelchair
- ◆ Floor cleaning machines
- ◆ Golf trolley
- ◆ Boats

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

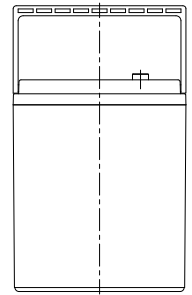
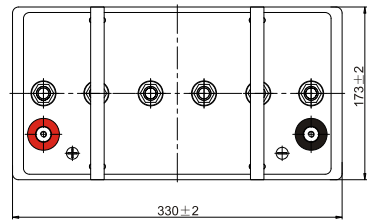
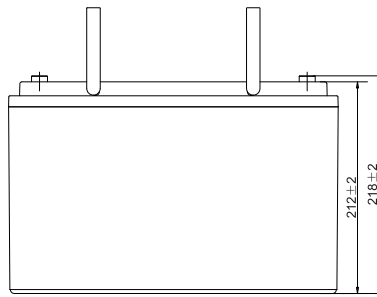
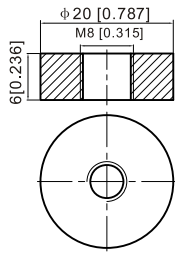
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	84.6	66.4	50.7	42.4	26.9	20.5	17.0	14.7	12.3	10.9	9.8	8.96	8.47	4.61
1.80V/cell	96.9	74.2	55.9	46.8	29.1	22.0	18.0	15.4	12.9	11.4	10.3	9.42	8.85	4.80
1.75V/cell	108.9	81.6	60.4	50.1	30.9	23.2	18.9	16.0	13.3	11.8	10.6	9.7	9.00	4.90
1.70V/cell	117.3	87.4	64.1	53.0	32.7	24.2	19.5	16.5	13.8	12.2	10.9	10.0	9.23	4.96
1.67V/cell	122.1	90.8	66.4	55.0	33.6	24.9	20.0	16.8	14.0	12.3	11.1	10.1	9.34	5.01
1.60V/cell	132.3	97.2	71.3	58.4	34.9	25.9	20.7	17.4	14.4	12.6	11.3	10.3	9.53	5.08

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

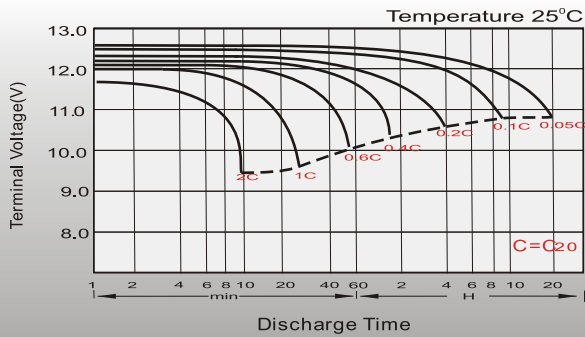
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	161.9	128.0	98.2	82.6	52.6	40.2	33.4	28.9	24.3	21.6	19.5	17.8	16.9	9.20
1.80V/cell	183.0	141.6	107.5	90.7	56.6	42.9	35.3	30.3	25.4	22.5	20.4	18.7	17.6	9.57
1.75V/cell	203.4	154.4	115.4	96.5	59.8	45.2	36.8	31.4	26.3	23.3	21.0	19.3	17.9	9.75
1.70V/cell	216.8	163.9	121.7	101.6	63.1	46.9	37.9	32.3	27.1	24.0	21.6	19.7	18.3	9.86
1.67V/cell	223.1	168.5	125.1	104.8	64.4	48.2	38.7	32.8	27.5	24.3	21.9	20.0	18.5	9.95
1.60V/cell	239.1	178.7	133.4	110.7	66.7	49.9	40.1	33.8	28.1	24.7	22.2	20.3	18.9	10.1

Dimensions

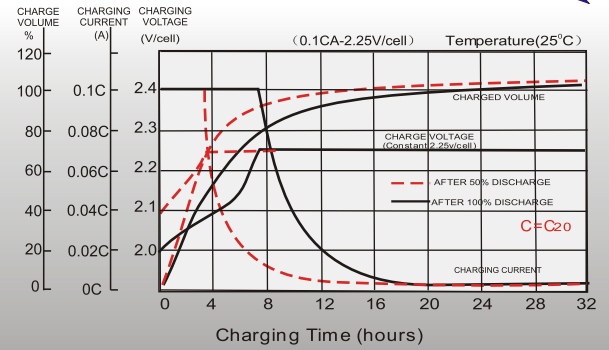
T11 Terminal Unit: mm [inches]



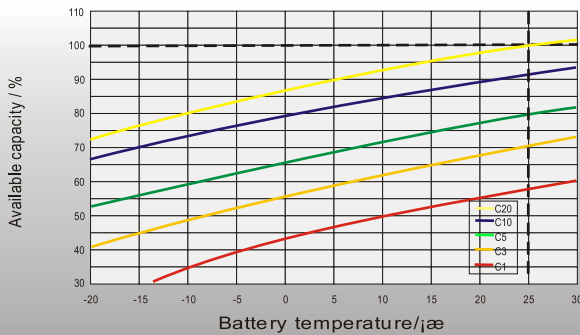
Discharge Characteristics



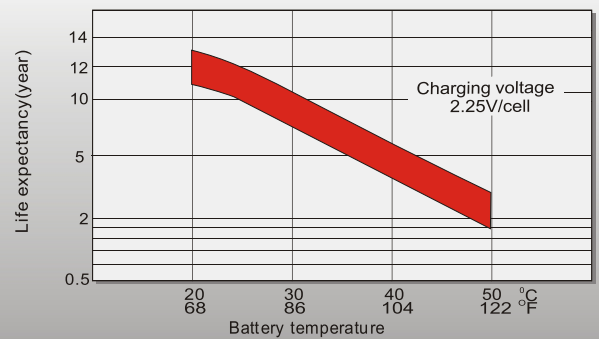
Float Charging Characteristics



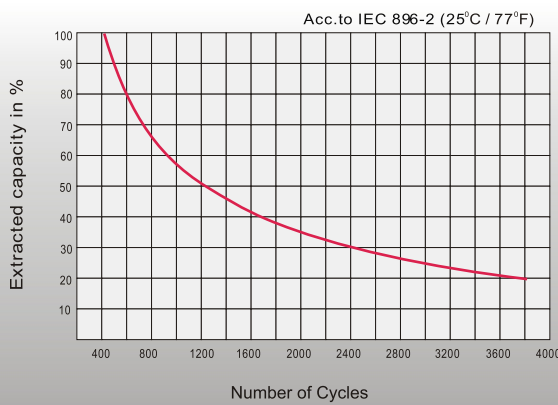
Temperature Effects in Relation to Battery Capacity



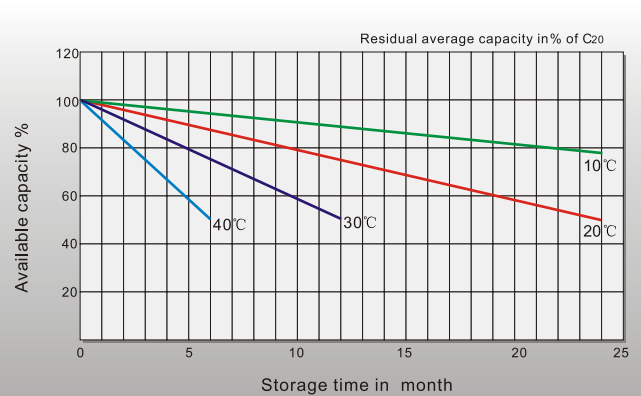
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



Merkez

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



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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
Yaşhıhan / KIRIKKALE