



Applications

- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Emergency lighting、Auto control system
- › Solar/wind generating storage cyclic
- › Other general purpose

Specification

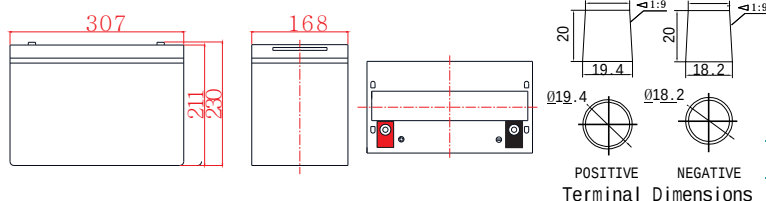
Nominal Voltage	12V
Nominal Capacity	90Ah
Design life	10 years
Terminal	AP
Approx. Weight	Approx 30.2kg (66.58lbs)
Container Material	ABS
Rated Capacity	90.0Ah 20Hour Rate (4.50A to 10.5V)
	64.2Ah 3Hour Rate (21.4A to 10.2V)
	49.7Ah 1Hour Rate (49.7A to 9.6V)
Internal resistance	Full charged at 25°C: 4.5 mΩ
Max. Discharge Current	1080A(5S)
Operating Temperature	Discharge: -20 ~50°C (-4 ~ 122°F)
	Charge: -20 ~50°C (-4 ~ 122°F)
	Storage: -20 ~50°C (-4 ~ 122°F)

General Features

- › High corrosion resistant performance: Pb-Ca multi-alloy grid
- › High energy density and power density
- › Optimized capability of instant high-current discharging
- › Excellent charge acceptance ability
- › Excellent deep cycle discharge capability
- › Strong high and low temperature performance
- › Precision sealing technology
- › Long life



Dimension:307(L)×168(W)×211(H)×230(TH) Unit: mm



Charge current: Max. 22.5A ; Recom.9.0A
Float Charge voltage(-3mV/ °C) :13.5-13.8V,
recom.13.8V(Full floating system)

Charge Method
(25 °C)

Equalize charge:13.8-14.1V,recom.14.1V(-4mV/ °C)

Cycle charge:14.4-15.0V,recom.14.7V(-6mV/ °C)

Self discharge 3% of capacity declined per month at 25°C

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

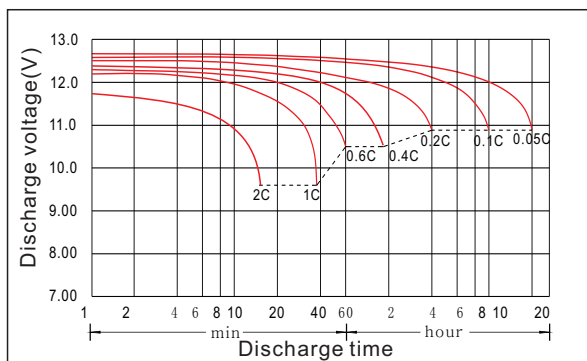
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	214	173	116	73.9	61.0	49.7	36.3	31.7	22.3	17.4	15.1	12.9	10.0	8.91	4.86
1.65V	210	170	114	72.4	59.9	48.9	35.6	31.1	21.9	17.0	14.9	12.6	9.79	8.74	4.78
1.70V	206	167	111	71.1	58.9	48.0	34.9	30.6	21.4	16.8	14.6	12.4	9.62	8.59	4.67
1.75V	202	164	109	69.9	57.8	47.1	34.2	30.0	21.1	16.4	14.3	12.1	9.43	8.42	4.50
1.80V	194	157	105	67.1	55.5	45.2	32.9	28.9	20.2	15.8	13.8	11.7	9.06	8.10	4.29
1.85V	185	148	99.2	62.4	52.0	42.4	30.7	27.2	19.3	14.7	13.2	10.9	8.61	7.54	3.96

Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

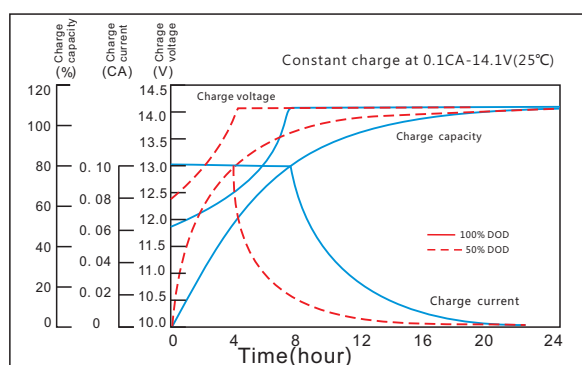
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	412	300	223	142	115	96.0	72.3	61.1	42.9	34.3	29.1	25.1	19.2	17.1	9.54
1.65V	404	294	219	140	113	94.3	71.1	60.0	42.2	33.7	28.7	24.7	18.9	16.8	9.36
1.70V	397	288	215	137	111	92.4	69.7	58.9	41.4	33.0	28.1	24.2	18.5	16.5	9.17
1.75V	389	283	211	135	109	90.6	68.5	57.6	40.5	32.4	27.6	23.8	18.2	16.2	9.00
1.80V	374	272	202	129	105	87.2	65.8	55.5	39.0	31.2	26.6	22.9	17.5	15.6	8.66
1.85V	355	257	192	125	99.0	82.5	62.7	53.1	36.6	29.7	25.1	21.8	16.6	14.8	8.25

GY6-EVF-90

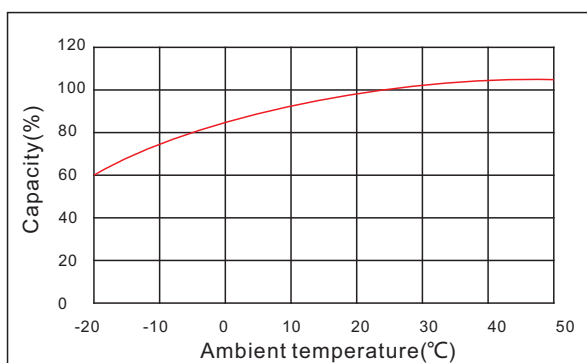
Discharge characteristic



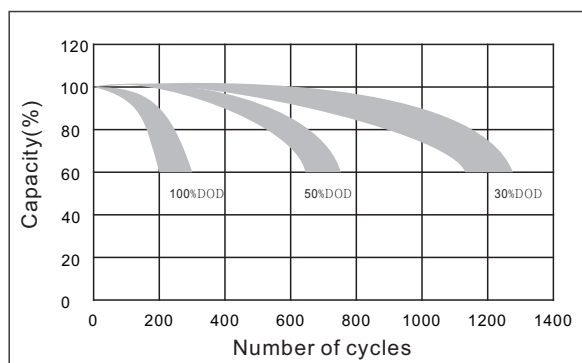
Charging characteristic



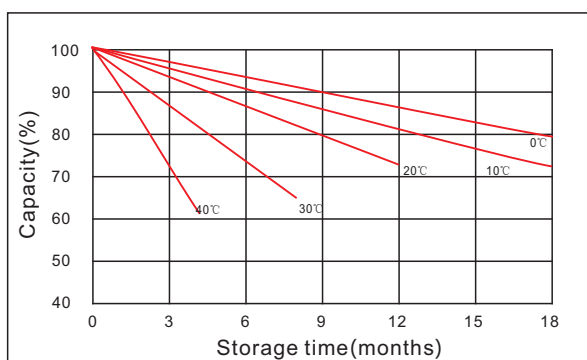
The effect of temperature on capacity



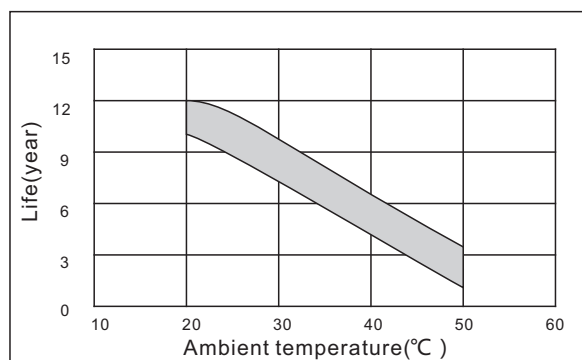
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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