



GY Series lead-acid battery GY6-EVF-90G

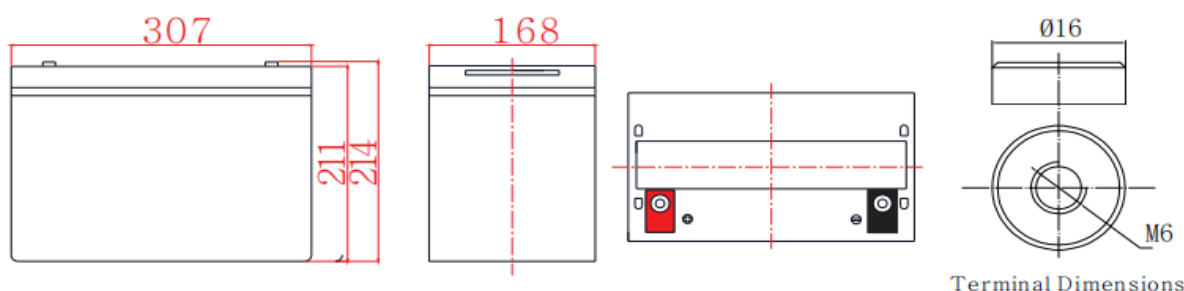
General Features

- 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)×214(TH)/(±3)

Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	90Ah@20Hour-rate to 1.75V per cell @25℃
Design life	10 years
Terminal	M6
Approx. Weight	Approx. 30.2kg ± 3 % (66.6lbs±3%)
Container Material	ABS
short-circuit current	2666A
Internal resistance(Full charged at 25℃:)	4.5 mΩ
Self discharge	3% of capacity declined per month at 25℃

Operating Temperature

Discharge:	-20 ~50℃(-4~ 122°F)
Charge :	-20 ~50℃(-4~ 122°F)
Storage:	-20 ~50℃(-4~ 122°F)

Charge Method(25 °C)

Charge current:	Max. 22.5A;Recom.9.0A
Float charge:13.5-13.8V	recom.13.8V(-18mV/ °C)
Equalize charge:13.8-14.1V	recom.14.1V(-24mV/ °C)
Cycle charge:14.4-15.0V	recom.14.7V(-30mV/ °C)

Standards

Executive standard GB/T 32620.1-2016

Applications

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

Rated Capacity

20Hour Rate (4.50A to 10.5V)	90.0Ah
3Hour Rate (21.4A to 10.2V)	64.2Ah
1Hour Rate (49.7A to 9.6V)	49.7Ah

Attain Certificate



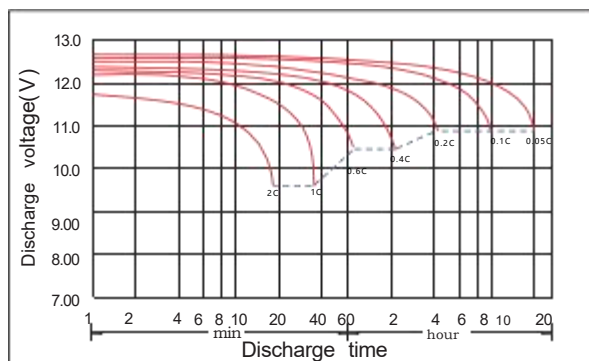
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



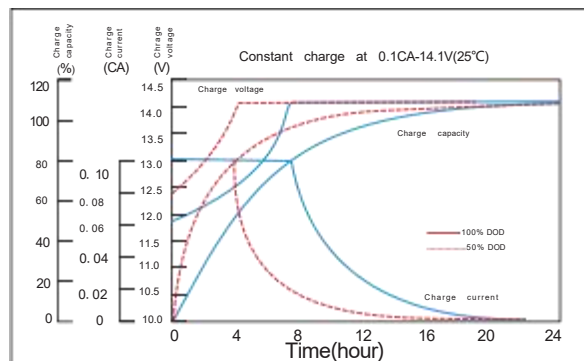
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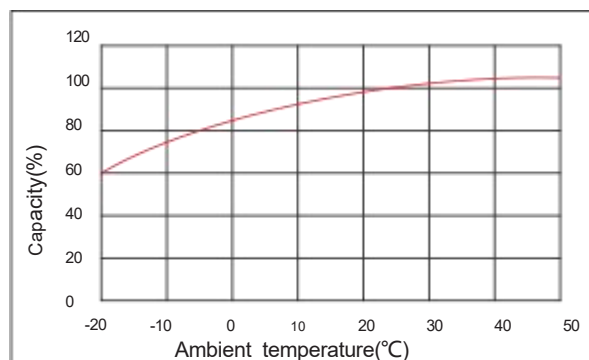
Discharge characteristic



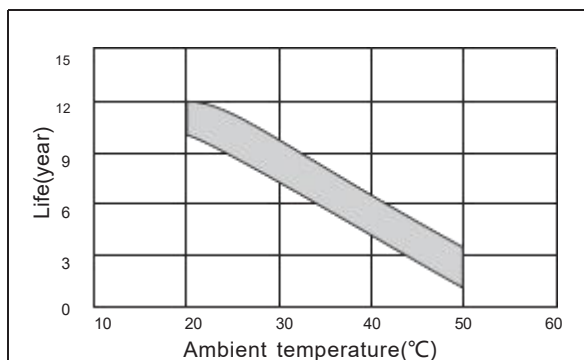
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float life



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

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	184.5	109.5	80.2	63.2	47.0	37.5	28.2	22.7	19.3	16.4	12.7	10.55	5.52
1.65V	177.3	105.1	77.0	60.8	45.6	36.7	27.3	22.0	18.8	16.2	12.5	10.42	5.43
1.70V	166.0	100.5	73.6	58.2	43.8	35.1	26.6	21.5	18.3	15.9	12.3	10.26	5.38
1.75V	154.5	95.1	70.3	56.4	42.0	33.9	25.8	21.0	17.9	15.5	12.2	10.13	5.25
1.80V	145.5	92.5	67.8	54.0	40.0	32.8	25.5	20.4	17.4	15.0	12.0	10.00	5.15
1.85V	120.7	78.3	59.2	47.4	36.2	29.1	22.4	18.5	15.9	13.7	11.2	9.22	5.08

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

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	324.1	198.9	145.9	115.8	87.0	69.0	53.2	42.6	36.4	31.6	24.8	20.74	10.87
1.65V	314.5	193.0	141.2	112.5	84.8	67.8	52.4	41.6	35.6	31.3	24.5	20.51	10.71
1.70V	298.9	186.3	139.5	109.6	83.6	65.6	50.2	40.6	34.8	30.6	24.2	20.23	10.59
1.75V	282.2	179.9	133.8	107.2	81.2	63.9	49.9	39.7	34.0	29.9	23.9	19.99	10.55
1.80V	266.9	173.7	128.7	102.8	77.0	62.8	48.6	39.3	33.2	29.4	23.6	19.76	10.49
1.85V	222.4	151.1	114.4	91.9	71.6	57.5	43.6	36.1	31.1	26.9	22.2	18.63	9.87