



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

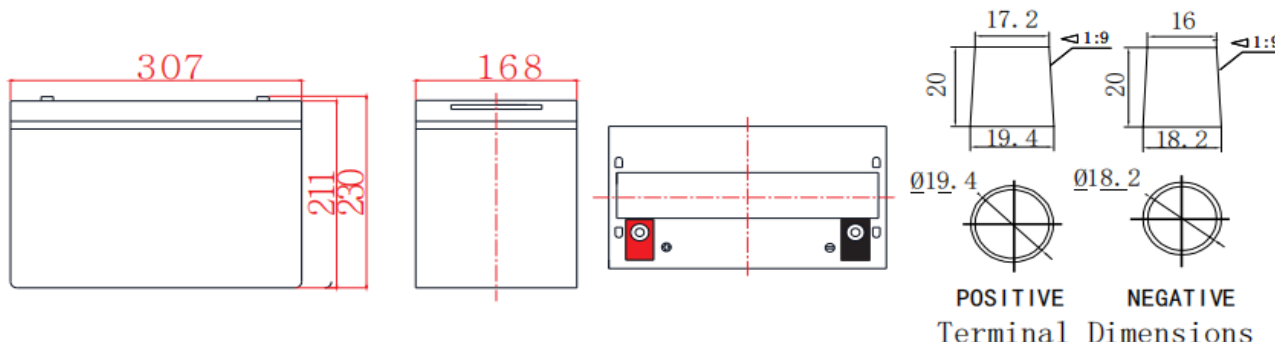


General Features

- 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)/(±3) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	90Ah@20Hour-rate to 1.75V per cell @25℃
Design life	10 years
Terminal	AP
Approx. Weight	Approx30.2kg±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

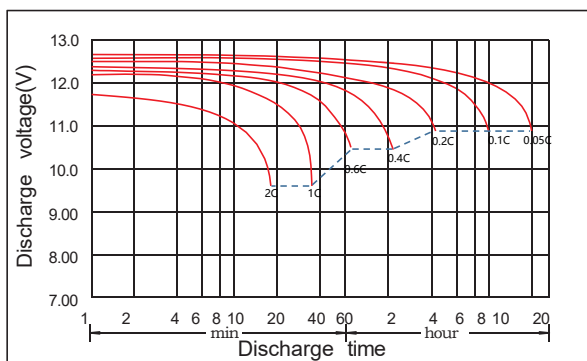
ISO 9001 CGM	ISO 14001 CGM	OHSAS 18001 CGM	RoHS
UL	CE	FC	PS E

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.

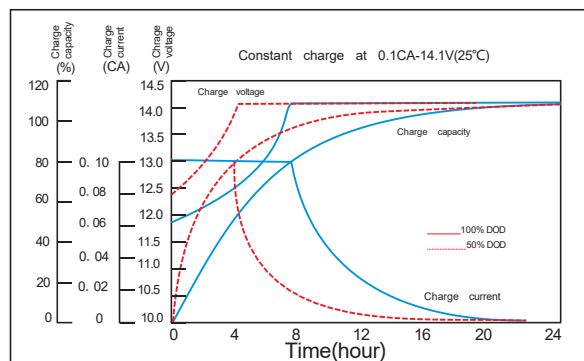


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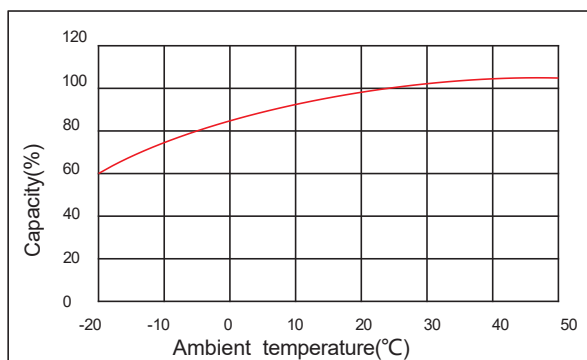
Discharge characteristic



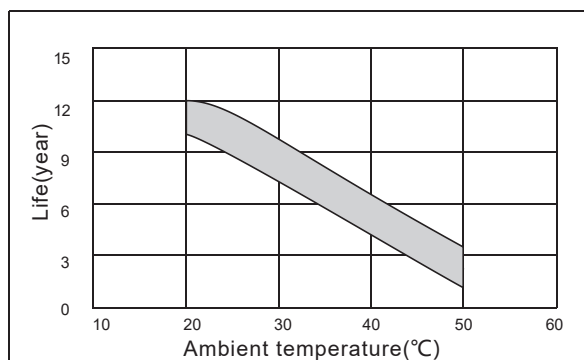
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float life



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

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	116	73.9	61	49.7	36.3	31.7	22.3	17.4	15.1	12.9	10.00	8.91	4.86
1.65V	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	111	71.1	58.9	48	34.9	30.6	21.4	16.8	14.6	12.4	9.62	8.59	4.67
1.75V	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	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	99.2	62.4	52	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 , 77)

FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	223	142	115	96	72.3	61.1	42.9	34.3	29.1	25.1	19.20	17.10	9.54
1.65V	219	140	113	94.3	71.1	60.0	42.2	33.7	28.7	24.7	18.90	16.80	9.36
1.70V	215	137	111	92.4	69.7	58.9	41.4	33.0	28.1	24.2	18.50	16.50	9.17
1.75V	211	135	109	90.6	68.5	57.6	40.5	32.4	27.6	23.8	18.20	16.20	9.00
1.80V	202	129	105	87.2	65.8	55.5	39.0	31.2	26.6	22.9	17.50	15.60	8.66
1.85V	192	125	99	82.5	62.7	53.1	36.6	29.7	25.1	21.8	16.60	14.80	8.25