PM9-12 12V9AH

GP SERIES-VRLA Battery



Specification

Nomial Voltage	12V
Nomial Capacity(20HR)	9.0AH
Dimension	Length 151±1mm (5.95 inches) Width 65±1mm (2.56 inches) Container Height 94.5±1mm (3.72 inches) Total Height (with Terminal) 100±1mm (3.94 inches)
Approx Weight	Approx 2.3kg (5.1lbs)
Terminal	T1 / T2
Container Material	ABS
Rated Capacity	9.00 AH/0.450A (20hr ,1.80V/cell,25℃/77℉) 8.37 AH/0.837A (10hr,1.80V/cell,25℃/77℉) 7.64 AH/1.528A (5hr,1.75V/cell,25℃/77℉) 6.88 AH/2.29A (3hr,1.75V/cell,25℃/77℉) 5.65 AH/5.65A (1hr,1.60V/cell,25℃/77℉)
Max. Discharge Current	134A (5s)
Internal Resistance	Approx 19mΩ
Operating Temp.Range	Discharge : -15～50℃ (5～122℉) Charge : 0～40℃ (32～104℉) Storage : -15～40℃ (5～104℉)
Nominal Operating Temp. Range	25±3℃ (77±5℉)
Cycle Use	Initial Charging Current less than2.7A.Voltage 14.4V~15.0V at 25℃(77℉)Temp. Coefficient -30mV/℃
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25℃(77℉)Temp. Coefficient -20mV/℃
Capacity affected by Temperature	40℃ (104℉) 103% 25℃ (77℉) 100% 0℃ (32℉) 86%
Self Discharge	JYC GP series batterys may be stored for up to 6 months at 25℃(77℉) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto controlsystem

ISO 9001 | ISO 14001 | OHSAS 18001 | TLC | CE | RoHS

Constant Current Discharge (Amperes) at 25 ℃ (77℉)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.2	12.4	10.3	8.90	6.88	5.07	4.27	2.53	1.98	1.61	1.31	1.14	0.918	0.767	0.421
1.80V/cell	21.7	15.9	12.4	10.5	8.12	5.90	4.79	2.76	2.13	1.72	1.41	1.22	0.973	0.791	0.425
1.75V/cell	24.5	17.5	13.6	11.3	8.43	6.12	5.01	2.86	2.17	1.76	1.45	1.25	0.990	0.812	0.429
1.70V/cell	27.0	19.0	14.5	11.9	8.78	6.36	5.17	2.93	2.23	1.80	1.48	1.28	1.004	0.828	0.437
1.65V/cell	29.7	20.5	15.4	12.6	9.26	6.52	5.29	2.98	2.32	1.86	1.52	1.31	1.020	0.845	0.443
1.60V/cell	32.8	22.3	16.5	13.5	9.78	6.80	5.34	3.10	2.39	1.92	1.57	1.34	1.030	0.854	0.445

Constant Power Discharge (Watts) at 25 ℃ (77℉)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	29.6	23.0	19.2	16.8	13.1	9.75	8.25	4.91	3.86	3.14	2.57	2.24	1.81	1.52	0.834
1.80V/cell	39.3	29.0	22.9	19.5	15.2	11.2	9.19	5.32	4.13	3.34	2.75	2.39	1.92	1.56	0.841
1.75V/cell	43.4	31.3	24.7	20.8	15.7	11.6	9.57	5.50	4.18	3.40	2.81	2.45	1.94	1.60	0.848
1.70V/cell	46.4	33.4	26.0	21.7	16.2	12.0	9.84	5.62	4.29	3.49	2.88	2.49	1.97	1.63	0.863
1.65V/cell	50.5	35.7	27.4	22.9	17.0	12.2	9.99	5.67	4.46	3.59	2.95	2.54	2.00	1.66	0.873
1.60V/cell	54.4	37.9	28.9	24.1	17.8	12.6	10.0	5.89	4.57	3.69	3.03	2.59	2.01	1.68	0.877

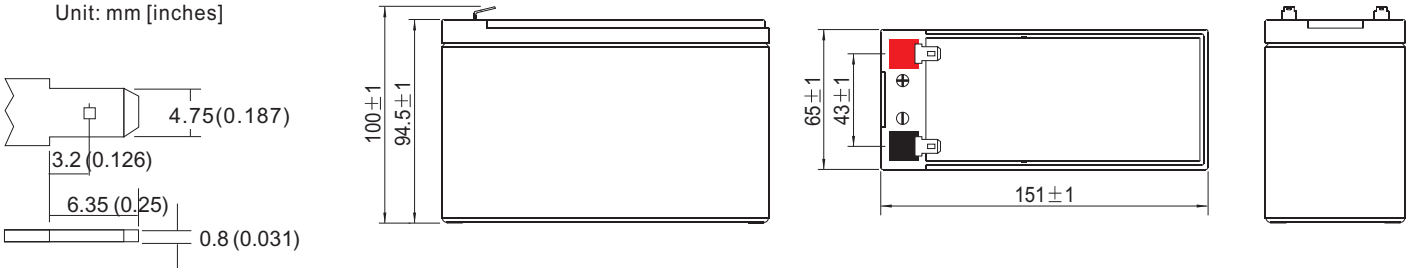
Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

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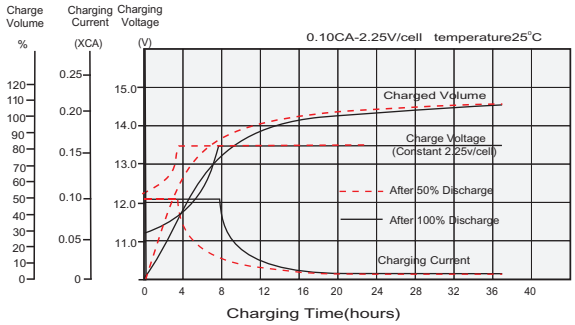
GP SERIES-VRLA Battery

Dimensions

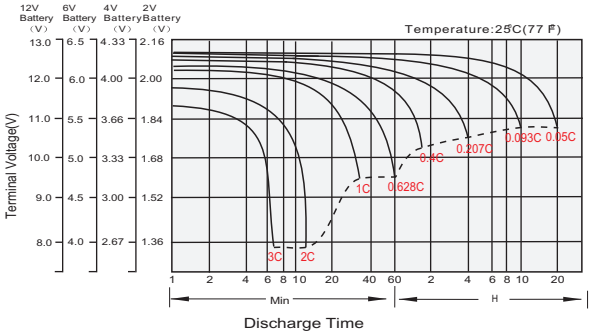
■ T1 Terminal
Unit: mm [inches]



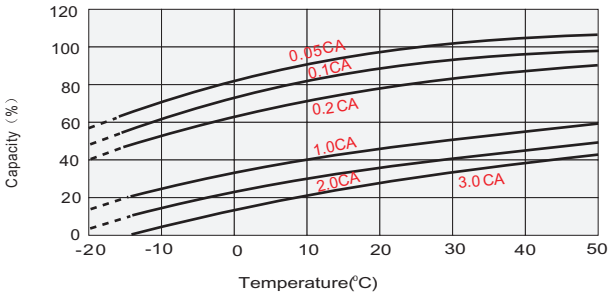
Float Charging Characteristics



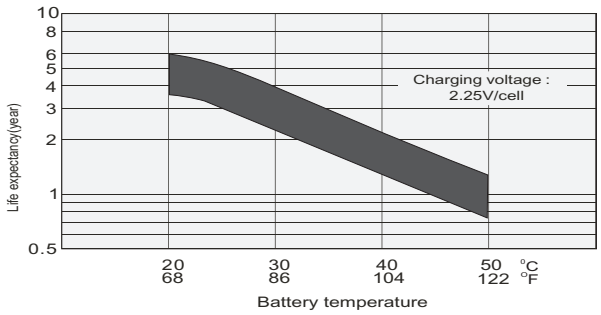
Discharge Characteristics



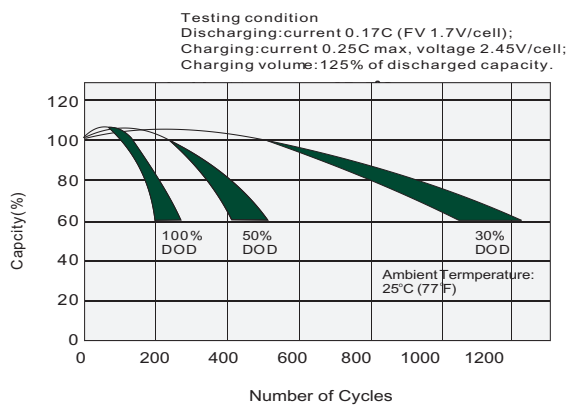
Temperature Effects in Relation to Battery Capacity



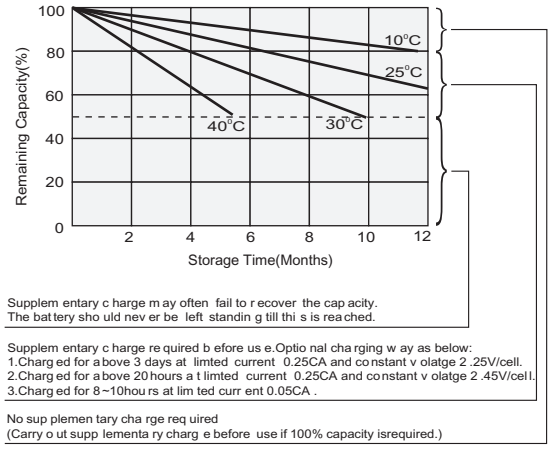
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Supplem entary c harge m ay often fail to r ecover the cap acity.
The bat tery sho uld nev er be left standin g till thi s is rea ched.

Supplem entary c harge re quired b efore us e.Optio nal cha rging w ay as below:
1.Charg ed for a bove 3 days at limted current 0.25CA and co nstant v olatge 2 .25V/cell.
2.Charg ed for a bove 20 hours a t limted current 0.25CA and co nstant v olatge 2 .45V/cell.
3.Charg ed for 8~10hou rs at lim ted curr ent 0.05CA .

No sup plemen tary cha rge req uired
(Carry o ut supp lementa ry charg e before use if 100% capacity isrequired.)

JYC GP BATTERIES

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