PM5.0-12 12V/5AH

VRLA Battery



Specification

Nomial Voltage	12V
Nomial Capacity(20HR)	5.0AH
Dimension	Length 90±1mm (3.54 inches) Width 70±1mm (2.76 inches) Container Height 101±2mm (3.98 inches) Total Height (with Terminal) 107±2mm (4.21 inches)
Approx Weight	Approx 1.52kg (3.19lbs)
Terminal	T1
Container Material	ABS
Rated Capacity	5.00 AH/0.250A (20hr ,1.80V/cell,25℃/77℉) 4.65 AH/0.465A (10hr,1.80V/cell,25℃/77℉) 4.25 AH/0.850A (5hr,1.75V/cell,25℃/77℉) 3.82 AH/1.275A (3hr,1.75V/cell,25℃/77℉) 3.14 AH/3.14A (1hr,1.60V/cell,25℃/77℉)
Max. Discharge Current	75A (5s)
Internal Resistance	Approx 45mΩ
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 than1.5A.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	9.52	7.31	6.06	5.24	4.05	2.98	2.51	1.49	1.16	0.95	0.77	0.67	0.540	0.451	0.248
1.80V/cell	12.8	9.34	7.32	6.19	4.78	3.47	2.82	1.62	1.25	1.01	0.83	0.72	0.573	0.465	0.250
1.75V/cell	14.4	10.3	7.99	6.66	4.96	3.60	2.95	1.68	1.28	1.03	0.85	0.74	0.583	0.478	0.253
1.70V/cell	15.9	11.2	8.53	7.00	5.16	3.74	3.04	1.73	1.31	1.06	0.87	0.75	0.591	0.487	0.257
1.65V/cell	17.5	12.1	9.07	7.44	5.45	3.84	3.11	1.75	1.37	1.10	0.90	0.77	0.600	0.497	0.261
1.60V/cell	19.3	13.1	9.71	7.92	5.75	4.00	3.14	1.83	1.41	1.13	0.93	0.79	0.606	0.503	0.262

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	17.4	13.5	11.3	9.87	7.72	5.73	4.85	2.89	2.27	1.85	1.51	1.32	1.066	0.893	0.490
1.80V/cell	23.1	17.1	13.5	11.5	8.97	6.62	5.40	3.13	2.43	1.96	1.62	1.41	1.127	0.919	0.495
1.75V/cell	25.5	18.4	14.5	12.3	9.23	6.80	5.63	3.23	2.46	2.00	1.65	1.44	1.144	0.942	0.499
1.70V/cell	27.3	19.6	15.3	12.8	9.56	7.05	5.79	3.31	2.53	2.05	1.69	1.47	1.159	0.960	0.507
1.65V/cell	29.7	21.0	16.1	13.5	10.0	7.16	5.88	3.34	2.62	2.11	1.73	1.50	1.174	0.979	0.514
1.60V/cell	32.0	22.3	17.0	14.2	10.5	7.42	5.90	3.46	2.69	2.17	1.78	1.52	1.183	0.988	0.516

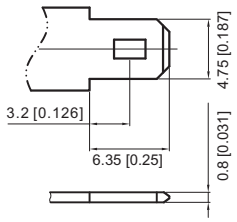
Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

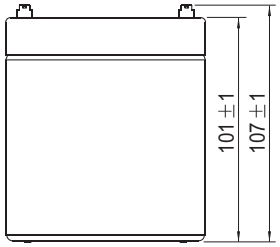
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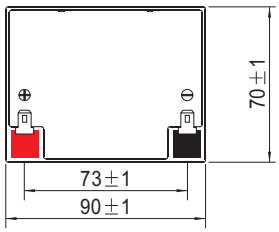
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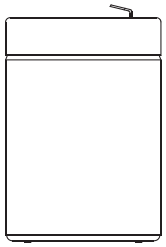
Dimensions

■ T1 Terminal
Unit: mm [inches]

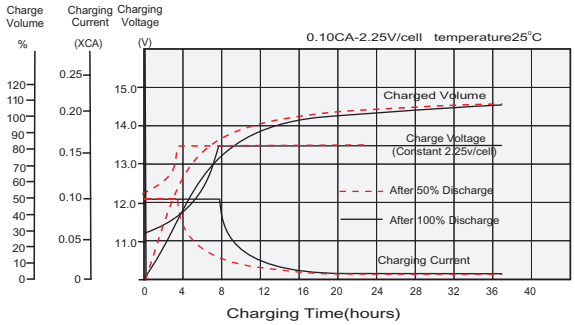




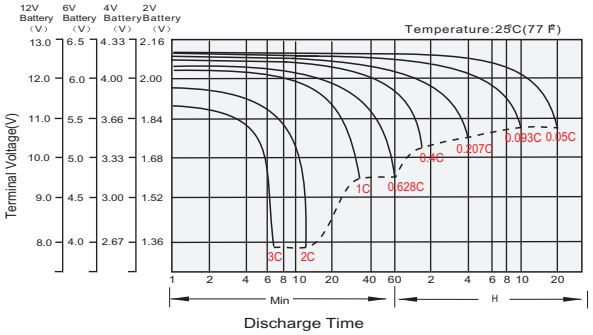




Float Charging Characteristics

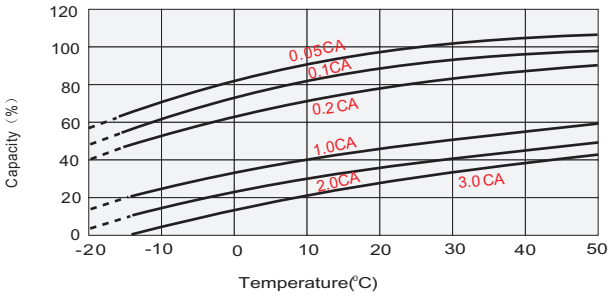


Discharge Characteristics

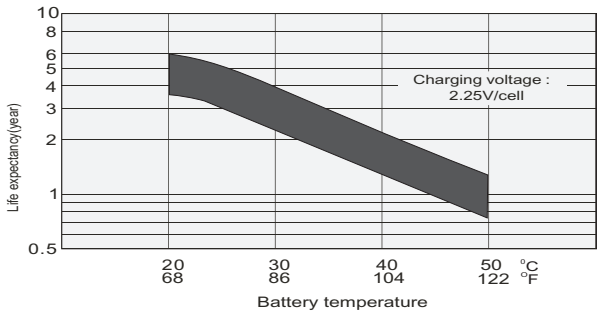


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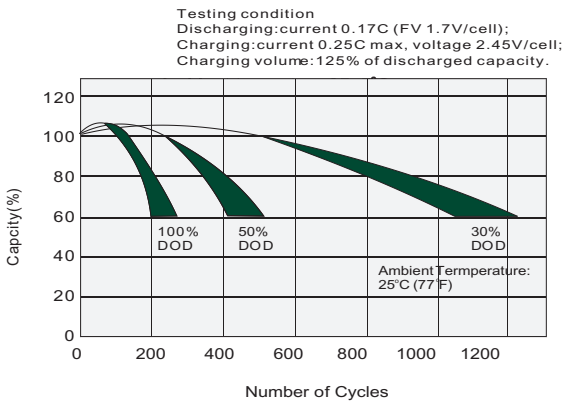
Temperature Effects in Relation to Battery Capacity



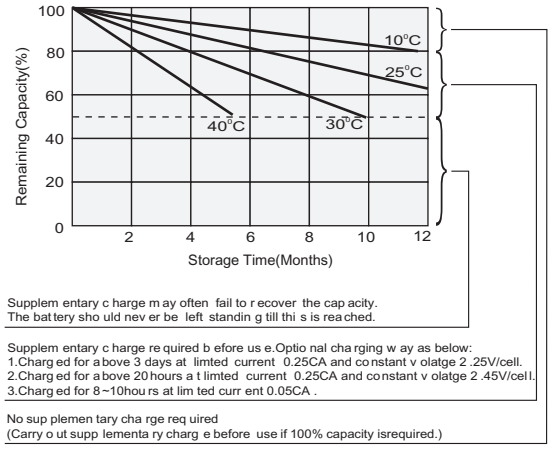
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



GP BATTERIES

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