

Specification

Designed Floating Life(20°C) 10Years

Nominal Voltage	12V
Watts(10min Rate)	48.0 Watts at 1.65V/cell
Dimension	Length 151±2mm (5.95 inches)
	Width 65±1mm (2.56 inches)
	Container Height 93.5±1mm (3.68 inches)
	Total Height (with Terminal) 99±1mm (3.90 inches)
Approx Weight	Approx 2.53kg (5.56lbs)
Terminal	F2
Container Material	ABS
Rated Capacity(20°C)	7.98 AH (10hr,0.798A,1.80V/cell)
	7.65 AH (8hr,0.956A,1.80V/cell)
	7.10AH (5hr,1.42A,1.75V/cell)
	6.45 AH (3hr,2.15A,1.75V/cell)
	5.86 AH (1hr,5.86A,1.65V/cell)
Max. Discharge Current(20°C)	135A (5s)
Internal Resistance(20°C)	Approx 17mΩ
Operating Temp.Range	Discharge : -15~45°C (5~113°F)
	Charge : 0~40°C (32~104°F)
	Storage : -15~40°C (5~104°F)
Nominal Operating Temp. Range	20±3°C (68±5°F)
Cycle Use	Initial Charging Current less than 2.7A.Voltage 14.4V~15.0V at 20 °C(68°F) Temp. Coefficient -30mV/°C
	No limit on Initial Charging Current Voltage 13.5V~13.8V at 20 °C(68°F) Temp. Coefficient -20mV/°C
Standby Use	
Capacity affected by Temperature(10HR)	40°C (104°F) 103%
	20°C (68°F) 100%
	0°C (32°F) 86%
Self Discharge(20°C)	Vvution VTHR series batteries may be stored for up to 6 months at 20°C(68°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Application

- ◆ UPS (High rate)
- ◆ High power backup supply
- ◆ Emergency power supply
- ◆ Starting system
- ◆ Power tools
- ◆ Emergency lighting
- ◆ Electric starting
- ◆ IT systems
- ◆ Broadcasting systems
- ◆ Telecommunication electrical equipments

Constant Current Discharge (Amperes) at 20°C (68°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	28.6	19.1	15.0	12.4	9.24	6.71	5.24	2.84	2.03	1.61	1.34	1.16	0.927	0.776	0.421
1.80V/cell	32.1	20.9	16.2	13.2	9.65	6.95	5.43	2.93	2.09	1.64	1.38	1.19	0.956	0.798	0.430
1.75V/cell	35.3	22.1	17.2	13.9	10.0	7.20	5.61	3.03	2.15	1.70	1.42	1.23	0.994	0.819	0.439
1.70V/cell	37.6	24.3	18.0	14.3	10.4	7.42	5.75	3.12	2.22	1.75	1.46	1.26	1.00	0.834	0.444
1.65V/cell	39.3	25.8	18.5	14.8	10.7	7.60	5.86	3.17	2.26	1.79	1.49	1.28	1.02	0.843	0.447
1.60V/cell	40.5	27.1	18.9	15.1	10.9	7.72	5.96	3.22	2.28	1.81	1.51	1.30	1.03	0.850	0.450

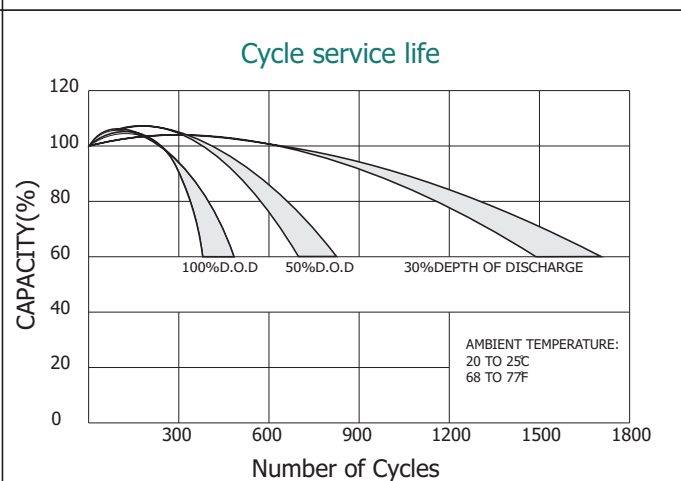
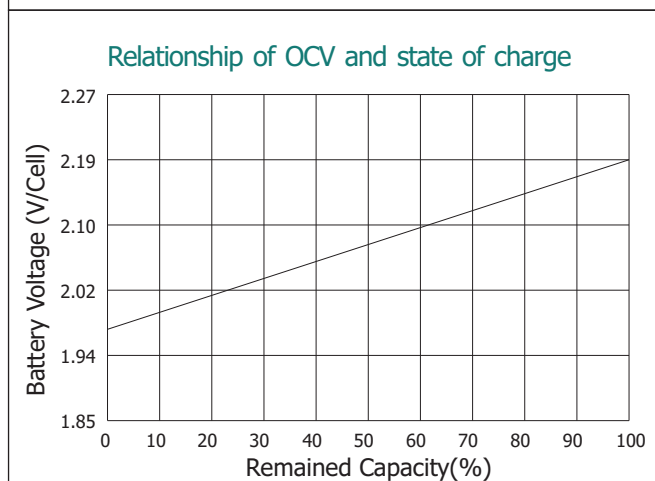
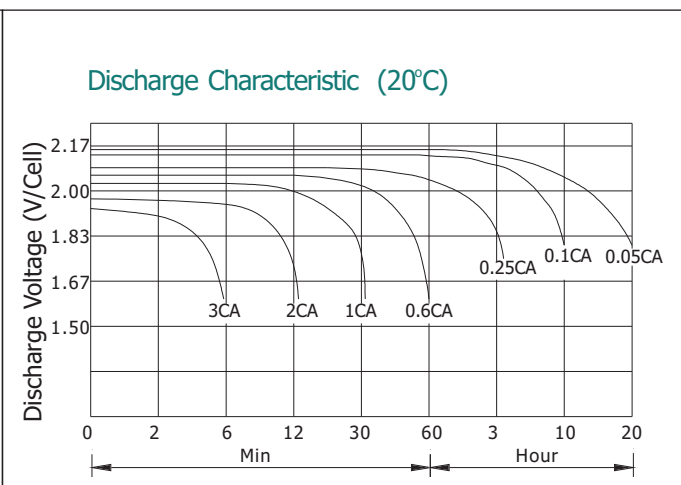
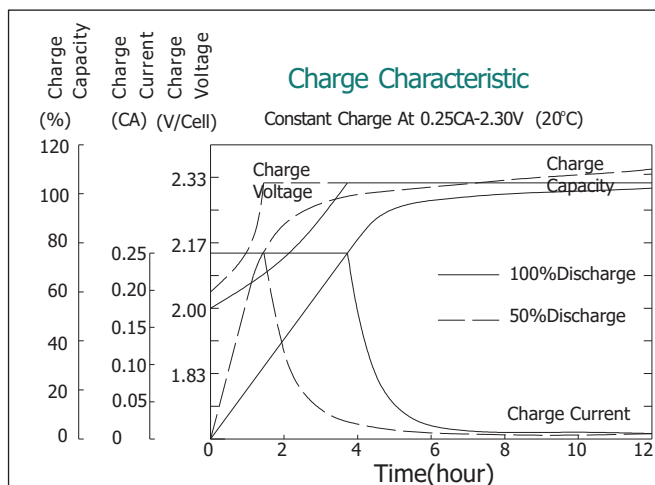
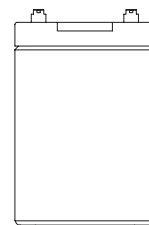
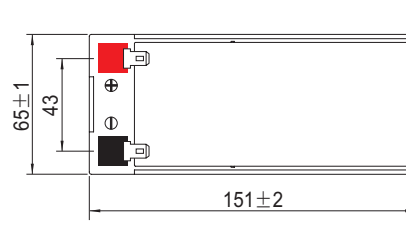
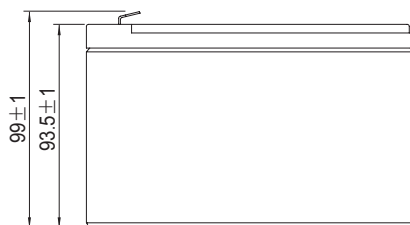
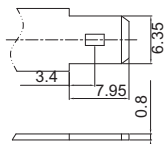
Constant Power Discharge (Watts/cell) at 20°C (68°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	66.8	37.6	29.2	23.5	17.6	12.9	10.1	5.50	3.95	3.14	2.63	2.28	1.83	1.54	0.836
1.80V/cell	68.4	39.4	33.1	24.7	18.2	13.2	10.4	5.66	4.06	3.20	2.69	2.34	1.88	1.58	0.851
1.75V/cell	70.4	44.1	34.6	25.7	18.8	13.6	10.7	5.82	4.15	3.30	2.78	2.41	1.95	1.61	0.867
1.70V/cell	71.5	46.8	35.6	26.3	19.4	14.0	10.9	5.97	4.27	3.39	2.84	2.46	1.97	1.64	0.877
1.65V/cell	72.4	48.0	36.9	27.0	19.8	14.2	11.1	6.05	4.33	3.45	2.89	2.49	2.00	1.65	0.881
1.60V/cell	73.5	48.3	37.6	27.2	20.0	14.3	11.2	6.12	4.37	3.47	2.92	2.52	2.01	1.67	0.885

Dimensions

F2 Terminal

Unit: mm [inches]



Quality Management System
Authentication

GB/T19001-2008
NO.00113Q29865ROM/4200

CE authentication

CE12-GPE 120171



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