

**VT-4-6**

**SKU 23448**



**6V4Ah(20hr)**



**Specification**

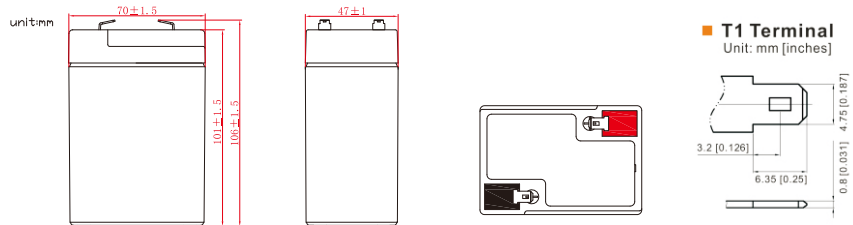
Nominal Voltage	6V
Nominal Capacity	4 Ah
Design life	5 years
Terminal	T1
Approx. Weight	Approx 0.67 kg (1.47 lbs)
Container Material	ABS
Rated Capacity	<b>4.00Ah</b> 20Hour Rate (0.2A to 10.8V)
	<b>3.67Ah</b> 10Hour Rate (0.367A to 10.8V)
	<b>3.30Ah</b> 3Hour Rate (1.1A to 10.5V)
Internal resistance	Full charged at 25 °C: 25 Ohm
Max. Discharge Current	67.5A(5S)
Operating Temperature	Discharge: -15 ~50°C (5~ 122°F)
	Charge: 0~40°C (32~104°F)
	Storage: -15~40°C (5~104°F)
Charge Voltage(25 °C)	Max. charge Current: 1.2A
	Cycle use: 7.2-7.5V(-30mV/ °C)
	Float use: 6.75-6.9V(-20mV/ °C)
Self discharge	3% of capacity declined per month at 20°C

**Application**

- > General purpose
- > Uninterruptable Power Supply
- > Electric Power System (EPS) Emergency
- > Backup power supply
- > Auto control system
- > Emergency light
- > Railway signal
- > Aircraft signal
- > Alarm and security system Electronic
- > Medical equipments



Unit: mm Dimension: 70(L)x47(W)x101(H)x106(TH)



**Constant Current Discharge (Amperes) at 25 °C (77°F)**

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	9.60	7.09	5.63	4.66	3.46	2.62	2.14	1.63	1.36	0.978	0.778	0.662	0.566	0.445	0.363	0.198
1.80V/cell	10.5	7.45	5.85	4.80	3.55	2.67	2.18	1.65	1.38	0.993	0.789	0.671	0.574	0.450	0.367	0.200
1.75V/cell	11.3	7.81	6.06	4.94	3.64	2.72	2.22	1.68	1.40	1.01	0.799	0.679	0.581	0.456	0.372	0.202
1.70V/cell	12.1	8.18	6.27	5.09	3.72	2.77	2.26	1.71	1.43	1.02	0.811	0.688	0.589	0.461	0.376	0.203
1.65V/cell	12.6	8.40	6.41	5.18	3.77	2.81	2.28	1.73	1.44	1.03	0.817	0.694	0.593	0.465	0.379	0.206
1.60V/cell	13.8	8.91	6.70	5.38	3.88	2.88	2.33	1.76	1.47	1.05	0.833	0.706	0.603	0.472	0.385	0.208

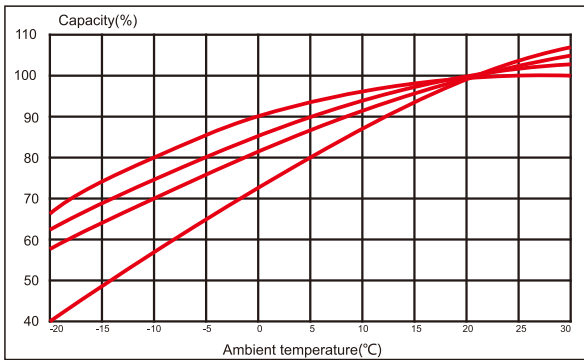
**Constant Current Discharge (Amperes) at 25 °C (77°F)**

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.3	13.6	10.8	8.96	6.70	5.07	4.16	3.18	2.66	1.92	1.53	1.31	1.12	0.880	0.721	0.391
1.80V/cell	19.7	14.2	11.2	9.20	6.83	5.16	4.22	3.22	2.70	1.95	1.55	1.32	1.13	0.890	0.730	0.395
1.75V/cell	21.2	14.8	11.5	9.40	6.97	5.24	4.28	3.26	2.73	1.97	1.57	1.34	1.15	0.900	0.738	0.399
1.70V/cell	22.6	15.4	11.9	9.70	7.09	5.32	4.34	3.31	2.77	2.00	1.59	1.35	1.16	0.910	0.746	0.403
1.65V/cell	23.5	15.8	12.1	9.80	7.17	5.37	4.38	3.33	2.79	2.01	1.60	1.36	1.17	0.920	0.751	0.406
1.60V/cell	25.3	16.6	12.5	10.1	7.35	5.48	4.46	3.39	2.84	2.04	1.63	1.38	1.18	0.930	0.762	0.411

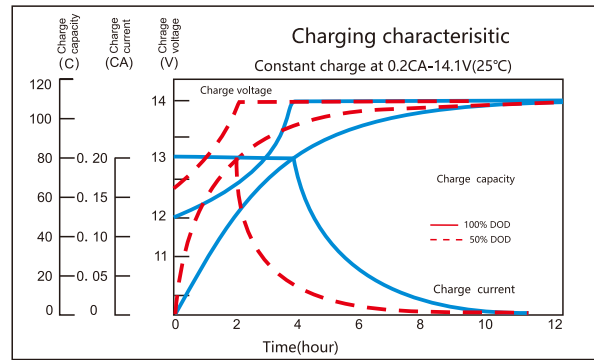
# 6V4Ah(20hr)

## Model Performance Diagrams

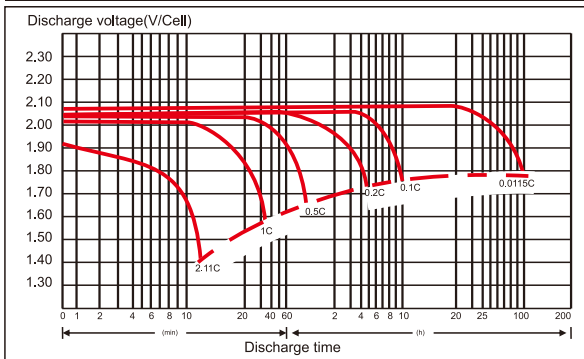
Curves of discharge capacity and ambient temperature



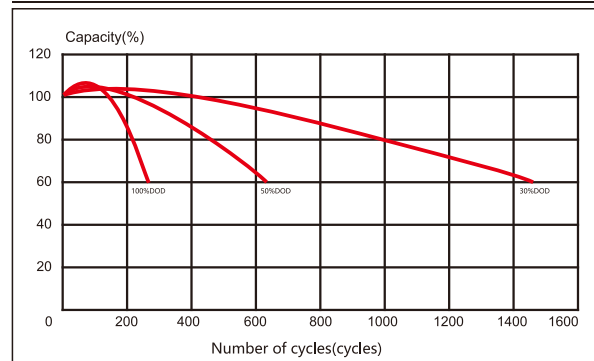
Curves of charging characteristics



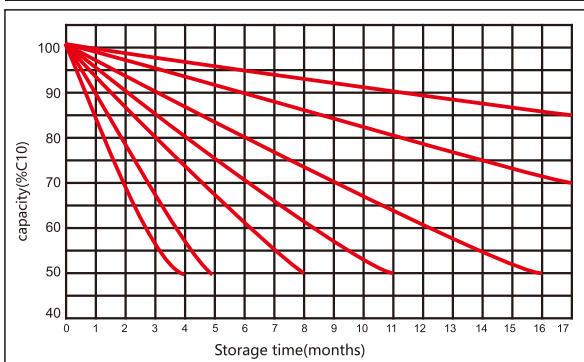
Discharge characteristics at different discharge rate(20°C)



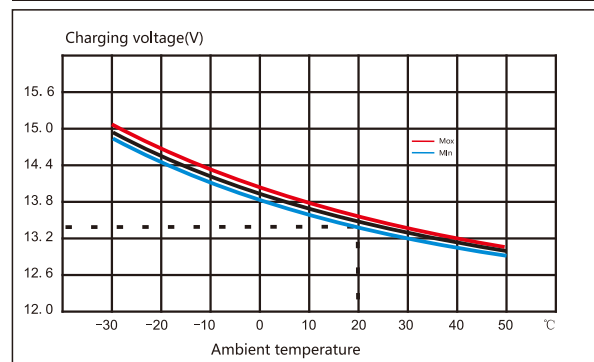
Curves of cycle life



Curves of self-discharge and storage time



Curves of float voltage and ambient temperature



Application type	Charge Voltage(V)			Max charge current (A)
	Temp (°C)	Set point	Temperature compensation	
Cycle use	25	14.4	-5mV/°C/cell	0.25C
Float use	25	13.65	-3mV/°C/cell	

The relationship between discharge current and voltage				
Discharge rate	1hr	3hr	8hr	10hr
End voltage (V)	10.5	10.8	10.8	10.8
Discharge current (A)	0.55C	0.25C	0.12C	0.1C

