

# Model: TT6V200A

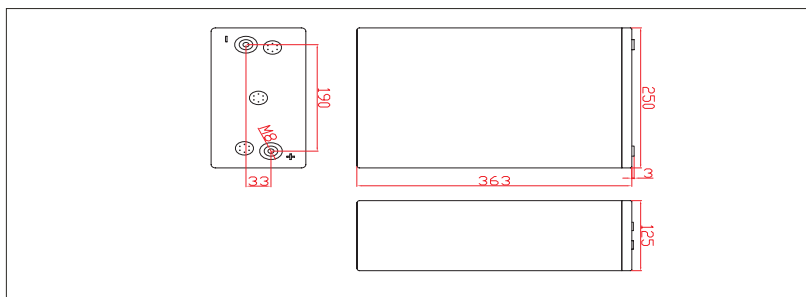
# TT Series

## General Features

TT range valve regulated lead acid batteries are designed with AGM absorbed electrolyte technology ensure reliable performance, outstanding life with high energy density for common power backup system applications widely used in the field of communication power, military and broadcast and television system. Design float life up to 12 years at 20°C(68°F).



## Dimension



## Parameter

Nominal Voltage	6V
Rated Capacity	200Ah (10hour rate) to 1.80V/cell @25°C(77°F)
Weight	36.5kg
Internal Resistance	Approx 1.6mohm
Operating Temperature Range	Discharge: -40°C~50°C(-40°F~122°F)
	Charge: -20°C~50°C(-4°F~122°F)
	Storage: -20°C~40°C(-4°F~104°F)
Recommended temperature	15°C~25°C(59°F~77°F)
Float Voltage	2.25V/cell@25°C(77°F)
Recommended Maximum Charging Current Limit	50A
Equalize and Cycle Service	2.35V~2.40V@25°C(77°F)
Self Discharge	The residual capacity is above 90% after 90 days storage(25°C/77°F)
Terminal	M8
Container Material	ABS

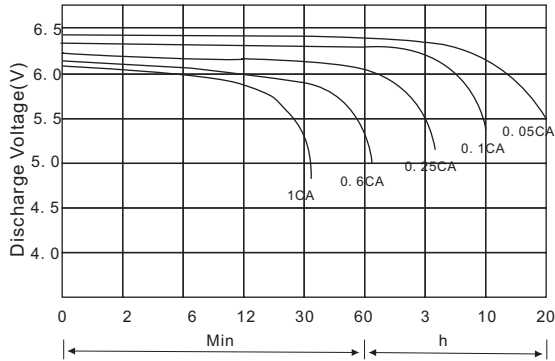
## Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

End voltage per cell	5MIN	15MIN	30MIN	45MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	12HR	20HR	24HR
1.60V	699.0	385.1	241.5	181.1	145.1	80.7	58.3	45.7	38.2	32.7	25.9	20.9	18.0	12.1	10.1
1.67V	655.3	368.2	238.1	179.9	143.9	79.5	57.6	45.4	38.0	32.6	25.8	20.8	18.0	12.1	10.0
1.70V	570.5	328.8	234.3	178.4	142.7	78.8	57.2	44.9	37.6	32.3	25.5	20.7	17.9	11.9	10.0
1.75V	515.4	343.7	226.3	174.6	139.7	77.8	56.2	44.4	37.2	32.0	25.2	20.6	17.8	11.9	9.8
1.80V	502.5	315.9	215.8	170.8	136.7	76.8	55.1	43.9	36.8	31.8	25.0	20.4	17.5	11.6	9.7
1.83V	451.8	293.8	205.1	164.3	131.4	73.9	54.2	42.6	35.7	30.9	24.3	20.3	17.0	11.3	9.5
1.85V	410.1	280.5	198.2	159.4	127.6	72.8	53.3	41.9	35.2	30.6	24.0	20.1	16.8	11.1	9.4

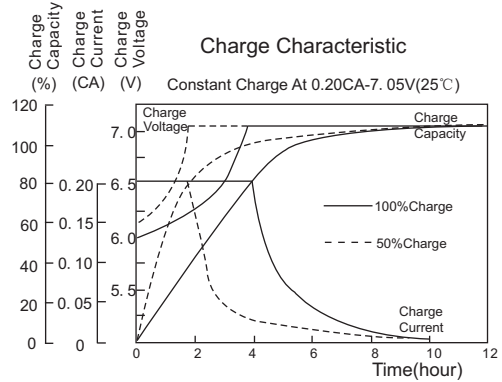
## Discharge Data with Constant Power Unit: W (25°C, 77°F)

End voltage per cell	5MIN	15MIN	30MIN	45MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	12HR	20HR	24HR
1.60V	1188	680	438	335	270	156	109	89.0	73.2	63.8	48.1	41.0	34.5	22.7	18.9
1.67V	1135	656	434	332	269	154	108	88.5	72.8	63.5	47.9	40.8	34.4	22.7	18.8
1.70V	1110	649	430	329	266	153	107	87.7	72.1	62.8	47.4	40.4	34.3	22.6	18.8
1.75V	1031	625	415	324	262	151	106	86.6	71.1	61.8	46.9	40.0	33.8	22.3	18.7
1.80V	929	585	393	317	257	149	104	85.6	70.0	60.8	46.1	39.4	33.6	22.0	18.5
1.83V	850	556	382	308	250	144	102	83.6	68.8	59.0	45.2	38.5	33.4	21.7	18.2
1.85V	791	531	373	298	241	141	101	82.8	68.0	58.7	44.5	38.2	32.8	21.4	18.1

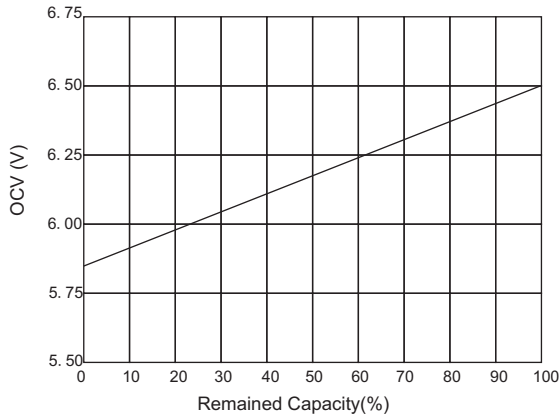
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



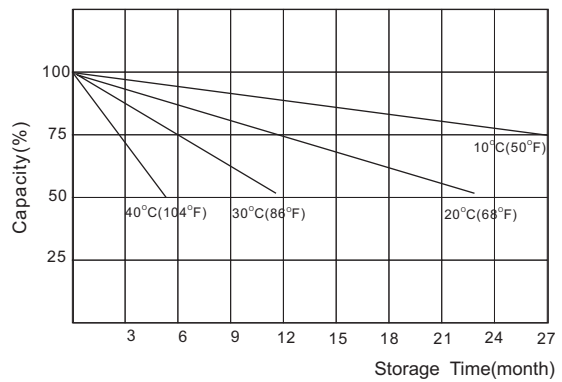
Battery Voltage Vs. Charge Time



Relationship of OCV Vs. State of Charge



Capacity Retention Characteristic



Charging Procedure

Application	Charge Voltage (V/Cell)			Max. Charge Current (A)
	Temperature (°C)	Set Point	Allowable Range	
Cycle	25	2.40	2.35~2.40	0.25C
Standby	25	2.25	2.23~2.27	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage (V/Cell)	1.80	1.70	1.55	1.30
Discharge Current (A)	I<0.2C	0.2C<I<0.5C	0.5C<I<1.0C	I>1.0C

