

Model: TT6V105

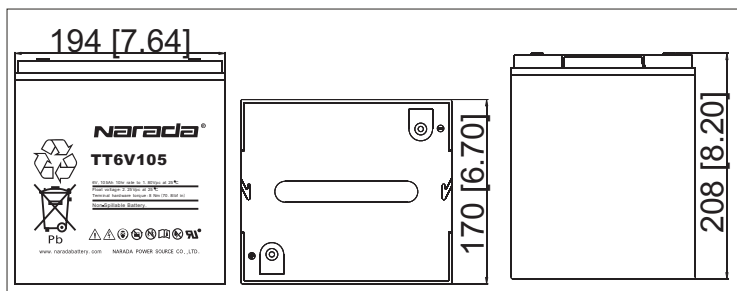
TT SERIES

General Features

The products are used as standby power for communication, power, military and broadcast and television system. They possess precise ABS glue seal technology between container and lid and patented post seal structure. The design float life is 12 years at 20°C(68°F).



Dimension



Parameter

Nominal Voltage	6V
Rated Capacity	105Ah (10hour rate) to 1.80V/cell @25°C(77°F)
Weight	18.5kg
Internal Resistance	About 2.45mohm
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	26A
Equalize and Cycle Service	2.35V~2.40V@25°C(77°F)
Self Discharge	The residual capacity is above 87% after 90 days storage(25°C/77°F)
Terminal	M8
Container Material	ABS

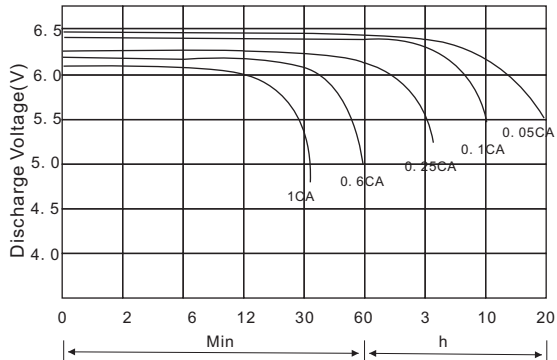
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

End voltage per cell	5MIN	15MIN	30MIN	45MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	12HR	20HR	24HR
1.60V	341	183	111	80.6	65.1	37.4	29.3	22.4	20.2	16.9	13.2	10.8	9.19	5.71	4.77
1.67V	321	177	109	80.0	64.7	37.2	28.7	22.3	20.0	16.8	13.0	10.7	9.10	5.66	4.73
1.70V	318	174	108	79.4	64.3	36.9	28.6	22.2	19.7	16.9	13.0	10.7	9.01	5.65	4.73
1.75V	292	168	107	78.8	63.3	35.9	28.2	21.9	19.5	16.7	12.9	10.6	9.01	5.63	4.72
1.80V	262	157	102	75.6	61.7	35.6	28.1	21.9	19.0	16.4	12.8	10.5	8.94	5.58	4.71
1.83V	249	144	100	73.1	59.0	35.2	27.1	20.9	18.4	15.8	12.5	10.1	8.58	5.57	4.64
1.85V	234	139	93.1	70.2	57.2	33.9	26.4	20.6	18.0	15.5	12.1	10.0	8.52	5.46	4.60

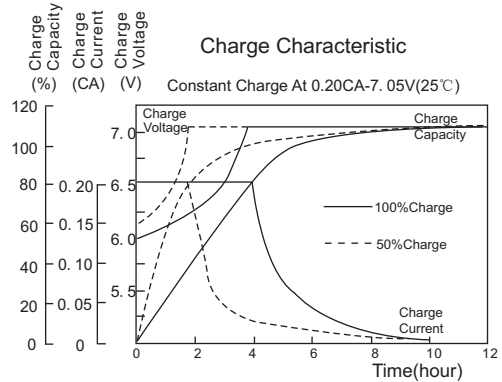
Discharge Data with Constant Power Unit: W (25°C, 77°F)

End voltage per cell	5MIN	15MIN	30MIN	45MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	12HR	20HR	24HR
1.60V	571	322	201	151	122	70.5	55.6	43.1	38.7	32.5	25.5	21.0	17.8	11.3	9.47
1.67V	549	316	199	150	122	70.3	54.9	43.0	38.5	32.5	25.2	20.8	17.7	11.3	9.47
1.70V	546	313	199	150	121	70.0	54.9	42.8	38.1	32.5	25.2	20.7	17.5	11.2	9.45
1.75V	510	311	199	150	120	69.7	54.3	42.8	37.9	32.4	25.0	20.6	17.5	11.2	9.45
1.80V	476	294	194	146	119	69.4	54.1	42.7	37.0	32.1	24.9	20.5	17.4	11.2	9.43
1.83V	459	269	191	142	114	68.6	52.9	41.1	36.2	31.2	24.7	20.0	17.1	11.2	9.37
1.85V	435	263	178	136	111	66.4	51.5	40.6	35.3	30.5	23.9	19.9	17.0	11.0	9.29

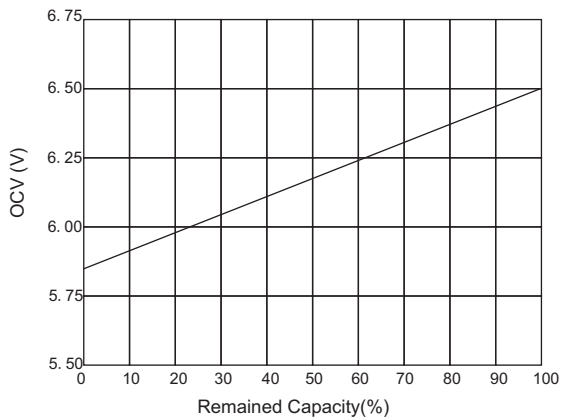
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



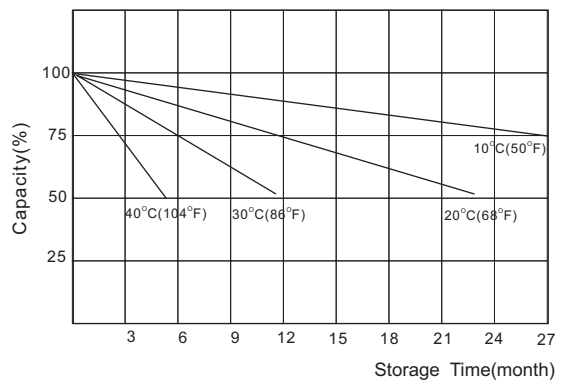
Battery Voltage Vs. Charge Time



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	2.35~2.45	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

