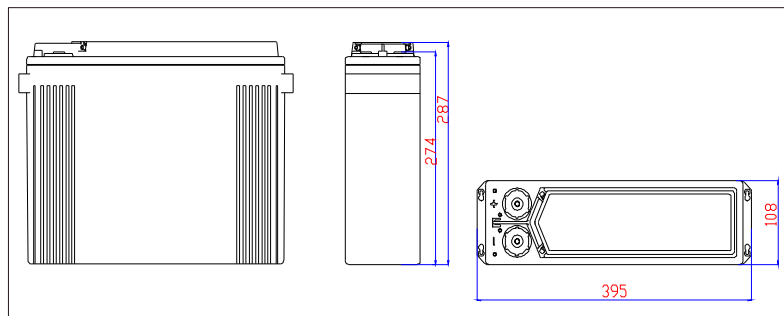


Narada's HTB-F series battery special designed for high temperature floating application, idea for telecom service where the temperature is higher. With CCPP thin plate technique, innovative structure design, high quality manufacturing and high quality high-temperature-resistant material, HTB-F batteries have 10 years design life at 35°C. HTB-F series also meet the standard <YD/T2657-2013 High temperature valve-regulated lead acid batteries for telecommunications>.

Dimensions—mm



Specifications

Battery Model	12HTB100F
Nominal Voltage	12V
Rated Capacity	100Ah (10 hour rate) to 1.80V/cell @25°C(77°F)
Typical Weight	Approx 31.0 kg
Internal Resistance	Approx 5.50mΩ
Temperature Ranges	Operation (maximum): -40°C to 65°C(-40°F to 149°F)
	Operation (recommended): 15°C to 35°C(59°F to 95°F)
	Storage: -20°C to 40°C(-4°F to 104°F)
Float Voltage	2.25V/cell@25°C(77°F)
Recommended Maximum Charging Current Limit	25 A
Equalize and Cycle Service	2.35V/cell@25°C(77°F)
Self Discharge	The residual capacity is above 96% after 28 days storage(35°C/95°F)
Terminal	M6 Female
Terminal Hardware Torque	8~10Nm
Container Material	PPO

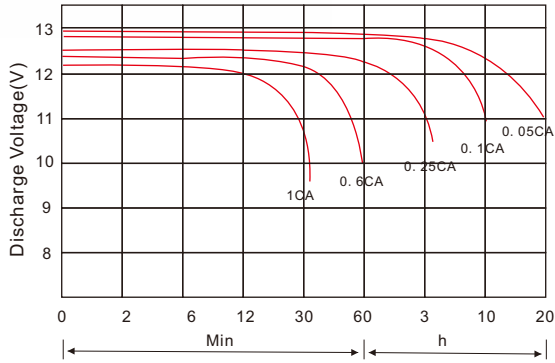
Constant Current Discharge Characteristics Units: Amperes (35°C, 95°F)

End voltage per cell	5MIN	15MIN	30MIN	45MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	12HR	20HR	24HR
1.60V	347	192	120	89.1	71.4	40.7	28.9	22.5	18.7	15.9	12.3	10.5	8.96	5.76	4.93
1.67V	338	189	119	88.4	70.9	40.4	28.8	22.4	18.5	15.8	12.2	10.4	8.89	5.73	4.90
1.70V	329	187	118	87.8	70.5	40.2	28.6	22.2	18.4	15.7	12.2	10.4	8.84	5.70	4.90
1.75V	312	182	116	86.6	69.6	39.8	28.3	22.0	18.2	15.5	12.1	10.3	8.79	5.69	4.89
1.80V	284	173	112	84.4	67.9	39.0	27.7	21.7	18.0	15.3	11.9	10.2	8.74	5.65	4.88
1.83V	264	165	108	81.8	66.1	38.3	27.3	21.4	17.7	15.2	11.8	10.1	8.65	5.64	4.87
1.85V	253	159	105	79.9	64.7	37.6	27.0	21.2	17.5	15.0	11.7	10.0	8.55	5.57	4.79

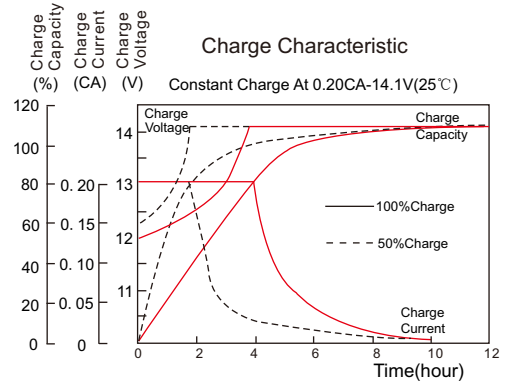
Discharge Data with Constant Power Units: Watts per cell (35°C, 95°F)

End voltage per cell	5MIN	15MIN	30MIN	45MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	12HR	20HR	24HR
1.60V	606	360	233	175	141	81.5	58.1	45.5	37.6	32.1	25.0	21.2	18.2	11.7	10.0
1.67V	599	356	231	173	140	81.0	57.8	45.3	37.3	31.9	24.8	21.0	18.0	11.5	9.84
1.70V	592	353	228	172	140	80.8	57.7	45.2	37.3	31.8	24.8	21.0	18.0	11.4	9.77
1.75V	570	343	224	169	138	80.2	57.3	45.0	37.1	31.6	24.6	20.8	17.7	11.2	9.57
1.80V	530	327	217	165	135	78.9	56.7	44.5	36.7	31.3	24.4	20.6	17.5	11.1	9.39
1.83V	500	314	210	161	132	77.8	56.1	44.1	36.4	31.1	24.2	20.5	17.3	10.9	9.27
1.85V	477	303	205	157	129	76.6	55.2	43.5	35.9	30.6	23.8	20.1	17.0	10.7	9.03

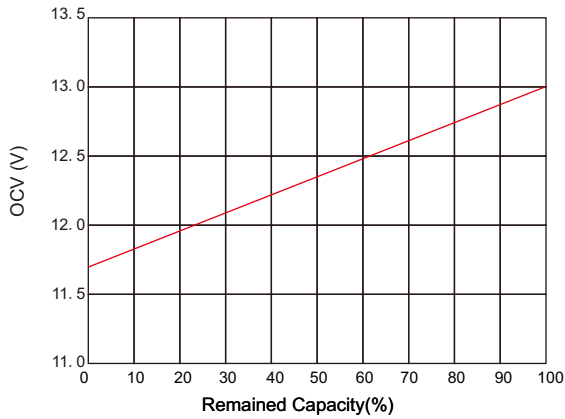
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



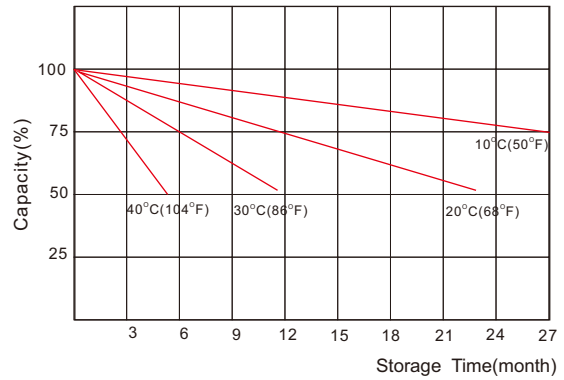
Battery Voltage Vs. Charge Time



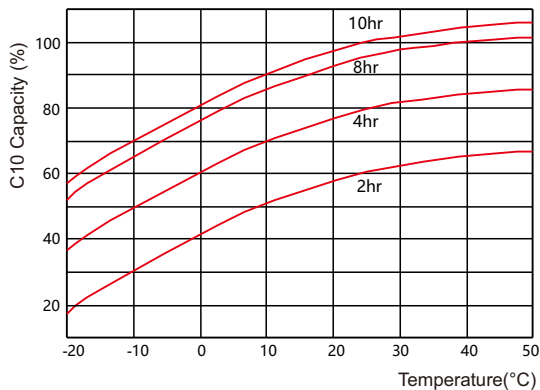
Relationship of OCV Vs. State of Charge



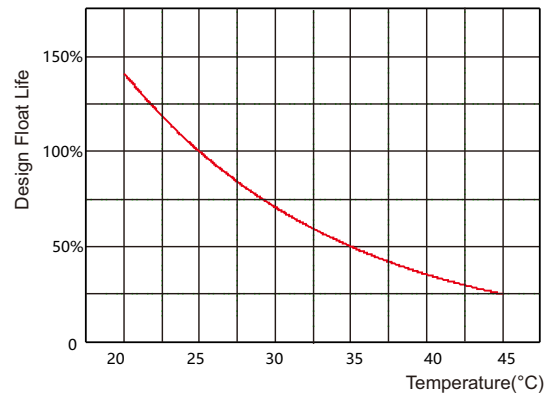
Capacity Retention Characteristic



Capacity vs temperature curve



Float life vs temperature curve



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