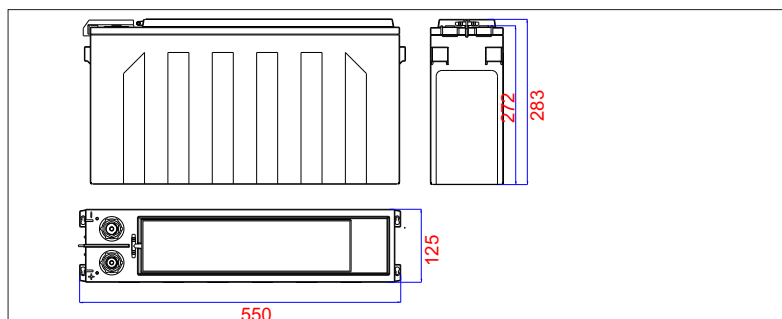


Narada's HTB-F series battery special designed for high temperature floating application, idea for telecom service where the temperature is higher. With CCPP thin plate technique, innovative structure design, high quality manufacturing and high quality high-temperature-resistant material, HTB-F batteries 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	12HTB170F
Nominal Voltage	12V
Rated Capacity	170Ah (10 hour rate) to 1.80V/cell @25°C(77°F)
Typical Weight	Approx 51.5 kg
Internal Resistance	Approx 4.63mΩ
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	42.5 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

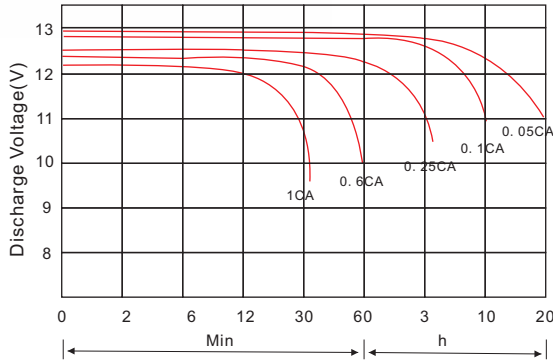
Constant Current Discharge Characteristics Units: Amperes (35°C, 95°F)

End voltage per cell	5MIN	15MIN	30MIN	45MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	12HR	20HR	24HR
1.60V	464	253	166	139	115	68.1	49.8	39.5	32.8	28.2	21.9	18.2	15.6	9.93	8.53
1.67V	430	249	164	137	113	67.4	49.2	39.0	32.4	27.8	21.7	18.0	15.4	9.55	8.08
1.70V	410	246	163	136	112	67.0	48.9	38.7	32.2	27.6	21.6	17.9	15.3	9.50	8.05
1.75V	377	240	162	135	110	66.2	48.5	38.4	31.8	27.3	21.4	17.7	15.2	9.49	7.99
1.80V	340	220	153	131	108	66.1	48.1	38.1	31.7	27.2	21.2	17.3	14.8	9.32	7.79
1.83V	316	217	149	126	104	64.2	47.3	37.5	31.2	26.7	21.0	17.1	14.6	9.02	7.54
1.85V	292	201	142	122	103	63.8	46.7	37.2	31.0	26.6	20.6	16.7	14.0	8.31	6.83

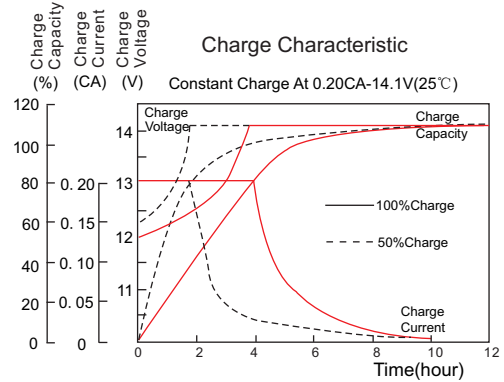
Discharge Data with Constant Power Units: Watts per cell (35°C, 95°F)

End voltage per cell	5MIN	15MIN	30MIN	45MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	12HR	20HR	24HR
1.60V	800	487	327	273	226	138	98.8	78.2	64.8	55.5	43.5	35.9	30.7	19.8	16.8
1.67V	750	480	325	271	224	136	97.9	77.5	64.5	55.3	43.2	35.7	30.5	19.6	16.6
1.70V	729	475	324	270	223	135	97.8	77.4	64.4	55.2	43.1	35.6	30.4	19.5	16.5
1.75V	693	463	319	268	220	134	97.3	77.1	64.1	55.0	42.8	35.4	30.3	19.3	16.4
1.80V	614	422	300	258	216	133	96.5	76.4	63.5	54.6	42.4	34.3	28.7	17.4	14.6
1.83V	567	413	294	252	210	132	96.0	76.0	63.0	53.9	41.7	34.1	28.6	16.8	13.8
1.85V	557	394	285	247	207	131	95.7	75.9	62.8	53.4	40.9	32.9	27.4	15.9	13.0

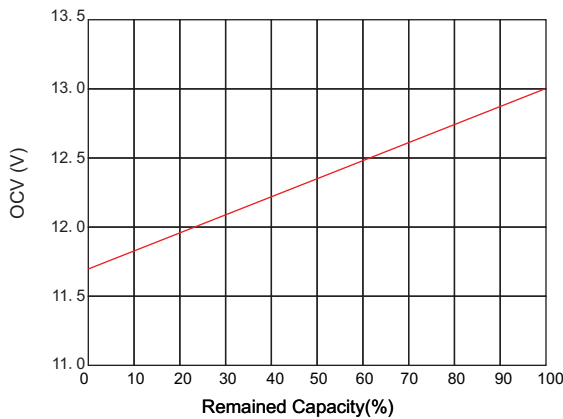
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



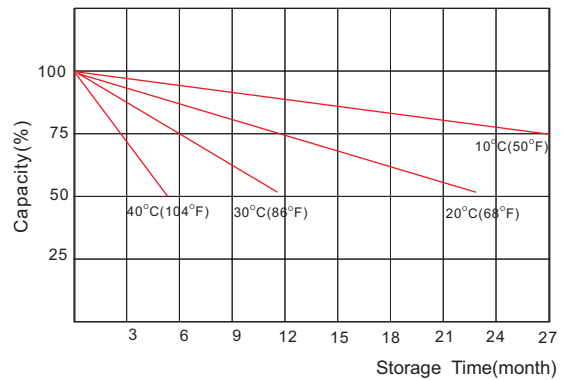
Battery Voltage Vs. Charge Time



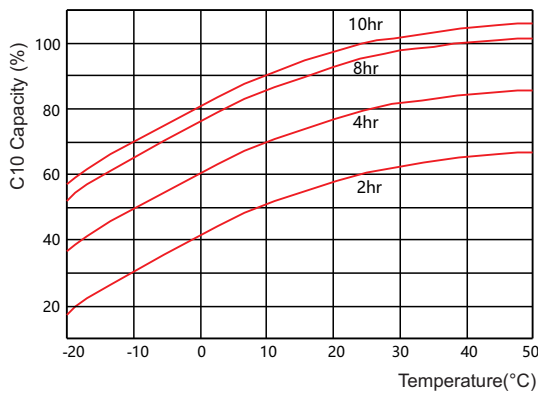
Relationship of OCV Vs. State of Charge



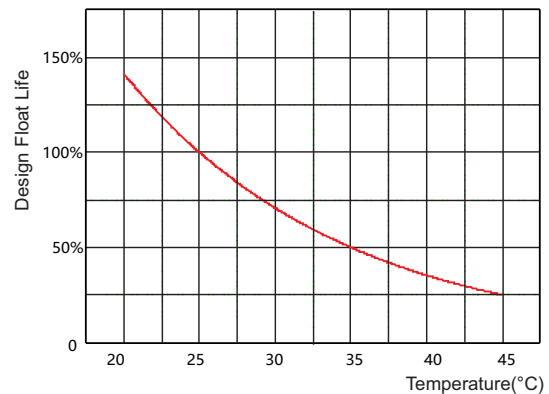
Capacity Retention Characteristic



Capacity vs temperature curve



Float life vs temperature curve



NARADA POWER SOURCE CO.,LTD.
 Building A, No.822 Wen'er West Road, Hangzhou, China
 Tel:+86-571-56975980 Fax:+86-571-56975955
 E-mail: intl@narada.biz
 Website:www.naradapower.com

NARADA ASIA PACIFIC PTE.LTD.
 Block 9 Khaki Bukit Road 1 #02-10 Eunos Technolink,
 Singapore 415938 Email: sales@narada-ap.com
 Tel: +65-6848 1191 Fax: +65-6749 3498
 Website: www.narada-ap.com

NARADA EUROPE (UK) LIMITED
 Spectrum House, Dunstable Road, Redbourn,
 St. Albans, Herts AL3 7PR
 Tel: +44 (0)845 371 7095 Fax:+44 (0)845 612 2031
 E-mail: sales@naradaeurope.com

