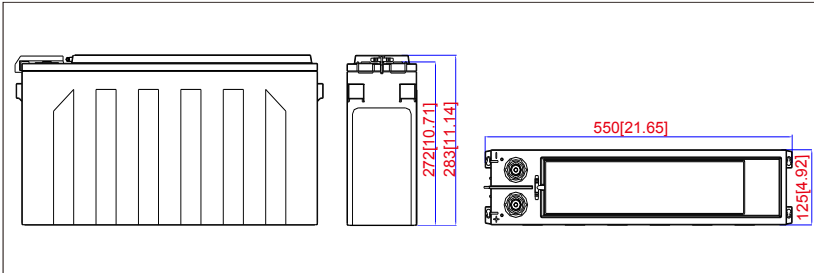


**Model: 12NDT170S**

The Acme T range of front access VRLA batteries has been specifically designed for applications using 19" and 23" cabinets, especially telecoms . Reliability is assured with the patented post seal and a state-of-the-art design developed to comply with the latest IEC, British and Telcordia standards. A 12+ years design life and centralised venting system add to the suitability and flexibility of this superior range.



**Dimensions-mm**



**Specifications**

Battery Model	12NDT170S
Nominal Voltage	12V
Rated Capacity	170Ah (10 hour rate) to 1.80V/cell @25°C(77°F)
Typical Weight	50.0 kg
Internal Resistance	Approx 4.63mΩ
Temperature Ranges	Operation (maximum): -40°C to 55°C(-40°F to 131°F)
	Operation (recommended): 15°C to 25°C(59°F to 77°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 91% after 90 days storage(25°C/77°F)
Terminal	M6 Female
Terminal Hardware Torque	8~10N·m
Container Material	ABS (V0 optional)

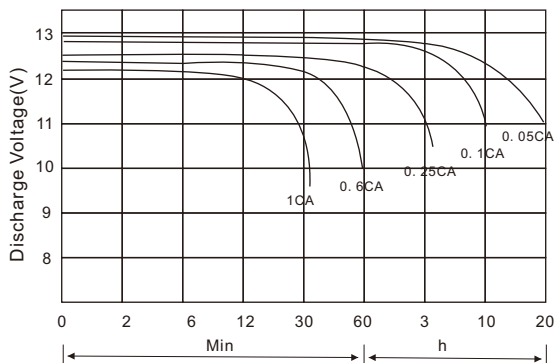
**Constant Current Discharge Characteristics Units: Amperes (25°C, 77°F)**

End voltage per cell	1h	2h	3h	4h	5h	8h	10h	12h	20h
1.67V	110.6	65.8	48.1	38.1	31.7	21.2	17.6	15.1	9.36
1.70V	109.9	65.6	47.7	37.8	31.5	21.1	17.5	15.0	9.30
1.75V	108.3	64.8	47.2	37.4	31.0	20.9	17.4	14.9	9.27
1.80V	105.2	64.4	46.5	36.9	30.7	20.5	17.0	14.5	9.16
1.83V	101.7	62.5	45.5	36.1	30.0	20.2	16.8	14.3	8.84
1.85V	98.2	61.0	44.5	35.4	29.6	19.6	16.4	13.7	8.15

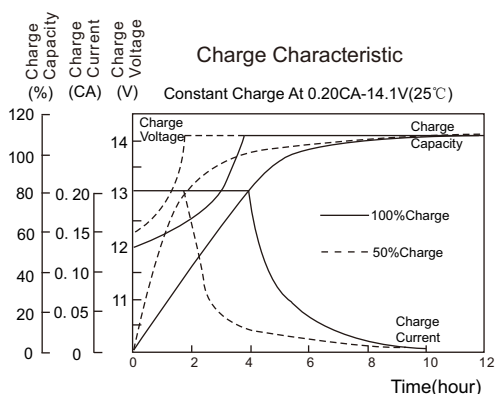
**Constant Power Discharge Characteristics Units: Watts per cell (25°C, 77°F)**

End voltage per cell	1h	2h	3h	4h	5h	8h	10h	12h	20h
1.67V	217	132	96.0	76.0	63.2	42.4	35.0	29.9	19.2
1.70V	216	130	95.8	75.8	63.0	42.2	34.9	29.8	19.1
1.75V	211	128	94.8	75.1	62.4	41.7	34.7	29.7	18.9
1.80V	201	123	93.1	73.7	61.3	40.9	33.6	28.1	17.1
1.83V	191	120	91.2	72.2	59.9	39.7	33.4	28.0	16.5
1.85V	183	115	89.5	71.0	58.8	38.3	32.3	26.9	15.6

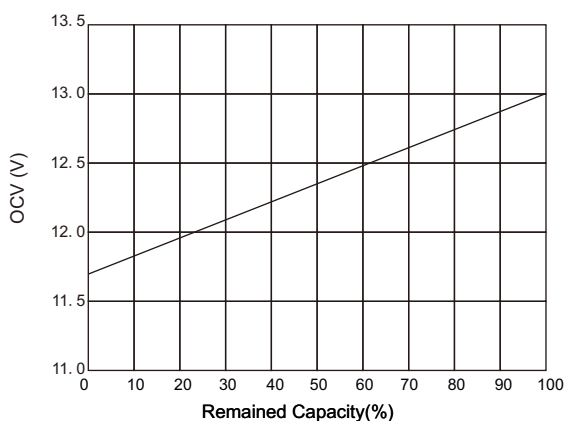
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



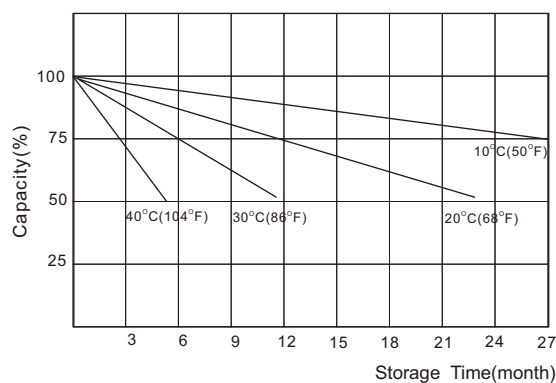
Battery Voltage Vs. Charge Time



Relationship of OCV Vs. State of Charge



Capacity Retention Characteristic



**Charging Procedures**

Application	Charge Voltage (V/Cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle	25°C	2.35	2.35~2.40	0.25C
Standby	25°C	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)	0.2C ≥ (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C	(A) > 1.0C

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