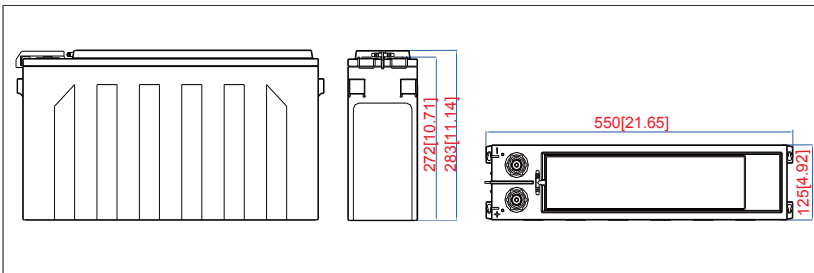


Model: 12NDT150S

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	12NDT150S
Nominal Voltage	12V
Rated Capacity	150Ah (10 hour rate) to 1.80V/cell @25°C(77°F)
Typical Weight	47.0 kg
Internal Resistance	Approx 5.17mΩ
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	37.5 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)

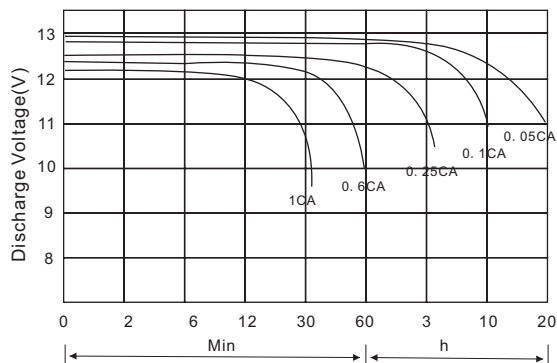
Constant Current Discharge Characteristics Units: Amperes (25°C, 77°F)

End voltage per cell	1h	2h	3h	4h	5h	8h	10h	12h	20h
1.67V	91.2	54.7	40.0	32.9	27.5	18.7	15.5	13.1	8.77
1.70V	91.1	54.6	39.9	32.7	27.4	18.5	15.3	12.9	8.70
1.75V	90.2	54.5	39.8	32.6	27.2	18.4	15.1	12.8	8.59
1.80V	87.8	53.8	39.7	32.3	27.0	18.2	15.0	12.7	7.72
1.83V	85.8	53.7	39.2	32.2	26.9	18.1	14.8	12.5	7.61
1.85V	83.2	52.4	38.9	32.1	26.8	17.9	14.6	12.3	7.49

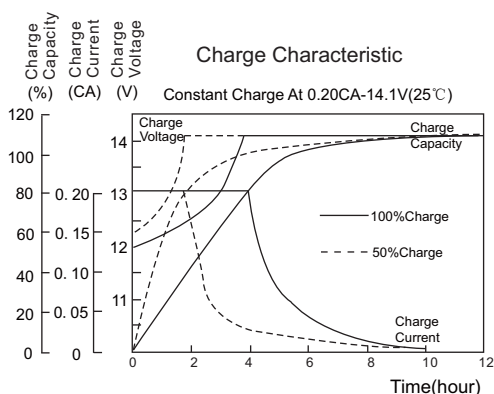
Constant Power Discharge Characteristics Units: Watts per cell (25°C, 77°F)

End voltage per cell	1h	2h	3h	4h	5h	8h	10h	12h	20h
1.67V	182	113	82.1	67.4	56.1	37.6	30.9	26.2	16.4
1.70V	181	112	81.5	67.0	55.7	37.4	30.8	26.1	16.2
1.75V	180	111	81.2	66.9	55.5	37.1	30.6	26.0	16.1
1.80V	175	110	80.6	66.8	55.1	37.0	30.1	25.3	15.4
1.83V	172	109	80.2	66.1	54.6	36.5	29.5	24.9	15.2
1.85V	167	105	77.8	64.1	53.5	35.9	29.4	24.7	14.4

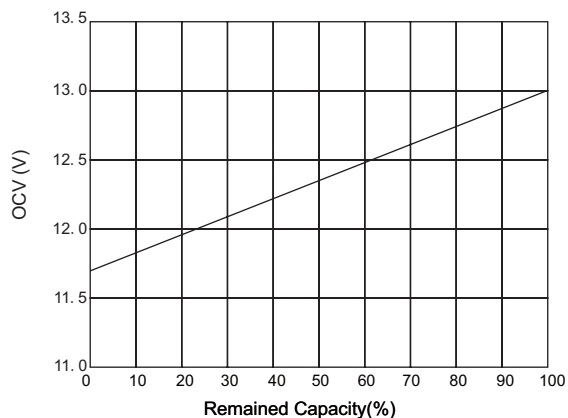
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



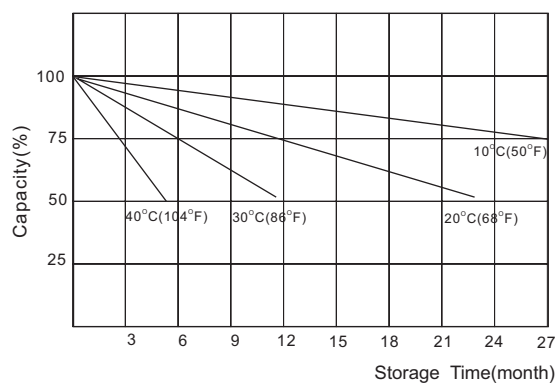
Battery Voltage Vs. Charge Time



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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