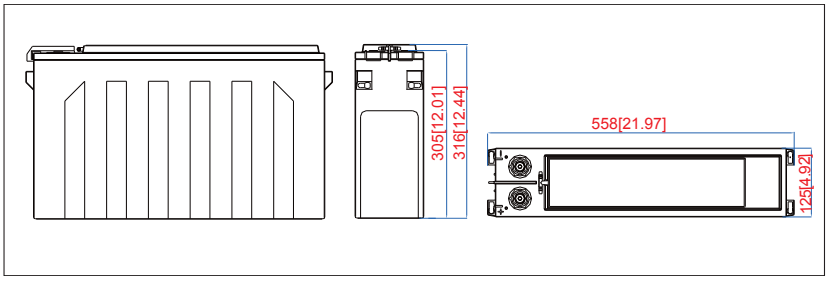
stored energy solutions for a demanding world

Model: 12NDT200S

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	12NDT200S
Nominal Voltage	12V
Rated Capacity	200Ah (10 hour rate) to 1.80V/cell @25°C(77°F)
Typical Weight	58.0 kg
Internal Resistance	Approx 4.27mΩ
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	50 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	132.3	77.4	56.0	44.0	36.4	24.1	21.3	18.2	11.6
1.70V	130.7	77.0	55.7	43.7	36.1	23.9	21.1	18.0	11.4
1.75V	126.8	75.7	54.9	43.1	35.6	23.5	20.6	17.1	10.9
1.80V	119.7	72.8	53.4	41.8	34.6	22.3	20.0	16.8	10.4
1.83V	113.0	71.0	51.9	40.7	33.6	21.3	19.4	16.1	10.0
1.85V	107.5	68.0	50.5	39.7	32.6	20.8	19.1	15.6	9.78

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	257	154	112	88.2	73.8	48.8	43.0	36.7	23.3
1.70V	254	153	111	87.4	73.2	48.4	42.6	36.2	22.7
1.75V	246	151	110	86.3	72.2	47.6	41.9	35.1	21.1
1.80V	233	146	107	84.3	70.4	45.6	40.8	33.5	19.6
1.83V	221	142	104	82.8	69.2	44.2	39.5	32.4	17.9
1.85V	211	136	102	80.9	66.7	43.0	38.7	31.9	16.6

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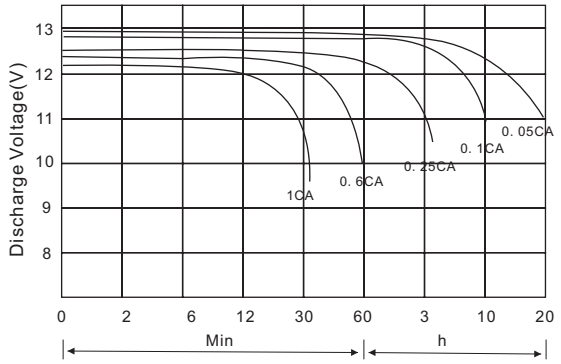
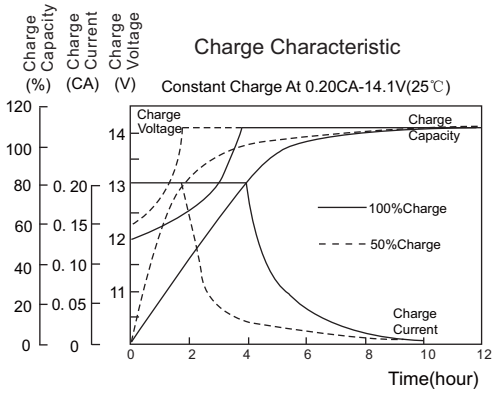
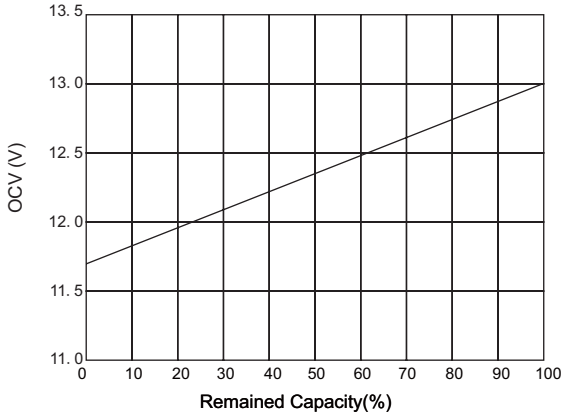
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



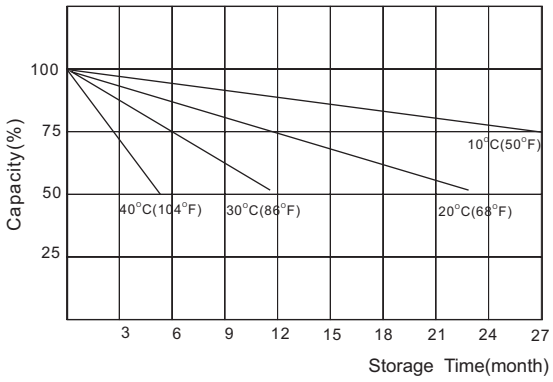
Battery Voltage Vs. Charge Time



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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