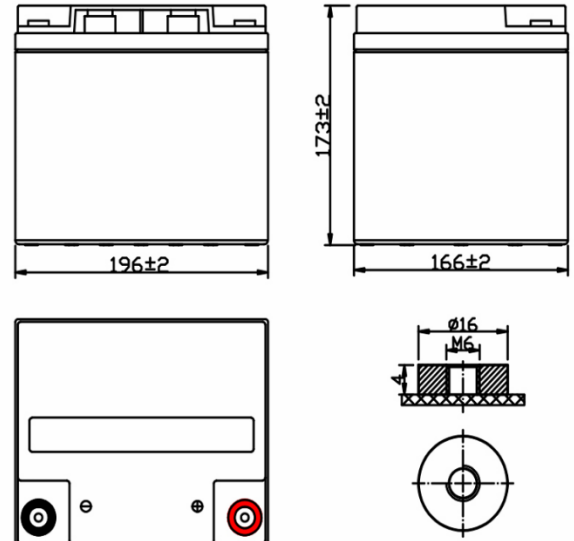
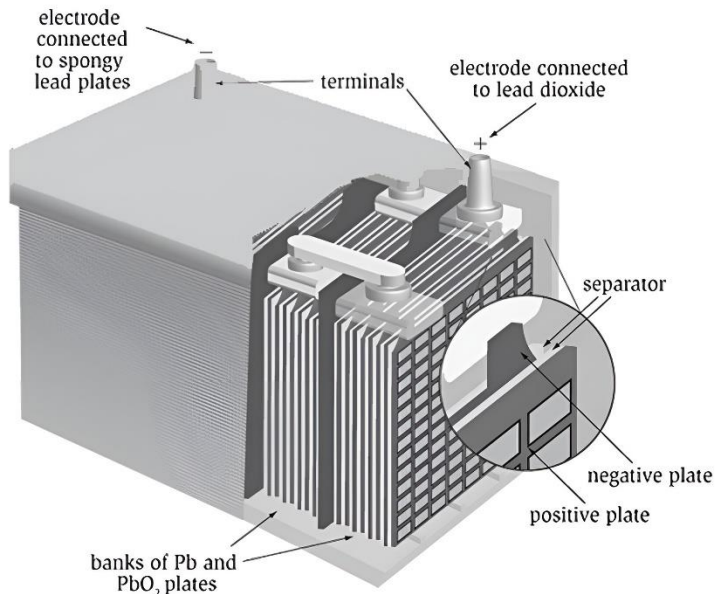


Battery Technical data sheet

AT 12-42 VRLA Battery



Specifications

Nominal Voltage	12V
Nominal Capacity	42 Ah (10 hr, 25°C)
Approximate Weight	13.5 ± 0.2 kg
Energy Density	82.5 Wh / L
Specific Energy	38 Wh / kg
Dimensions	Length(mm): 196±2 Width(mm): 166±2 Height(mm): 173±2
Internal Resistance	≤8 mΩ (Full charged battery , 25°C)
Terminals	M6
Operating Temperature Range	Best range: 15 °C ~ 25 °C charging : -15°C ~ 50 °C Discharge: -40 °C ~ 50 °C Storage: -20 °C ~ 40 °C
Equalizing Charge	13.80 V ~ 14.40 V (25 °C)
Float Voltage	13.38 V ~ 13.68 V (25 °C)
Self-Discharge & Storage	1 month: 98 % 3 months: 91 % 6 months: 82 %
Case Material	ABS

Battery Technical data sheet

AT 12-42 VRLA Battery

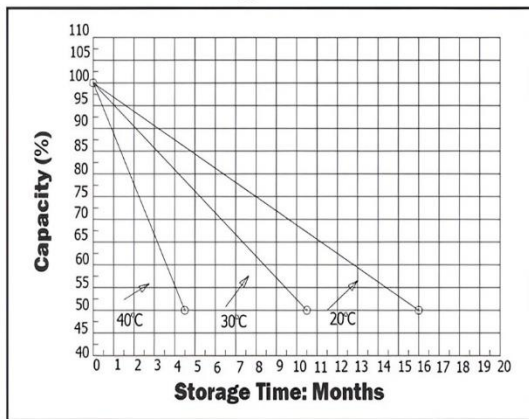
Constant current discharge characteristics (25°C)

Final Voltage	5Min	10Min	15min	30min	1hr	2hr	3hr	5hr	8hr	10hr	20hr
1.60 V/Cell	120.2	80	62.8	40.9	23.9	13.9	9.9	7.0	4.6	4.0	2.2
1.70 V/Cell	114.2	76.4	60.3	38.8	23.5	13.7	9.7	6.9	4.6	3.92	2.2
1.75 V/Cell	110.7	73	58.8	37.9	22.2	13.6	9.6	6.8	4.6	3.8	2.1
1.80 V/Cell	107.2	71.4	57.8	36.1	21.8	13.4	9.5	6.7	4.5	3.8	2.1

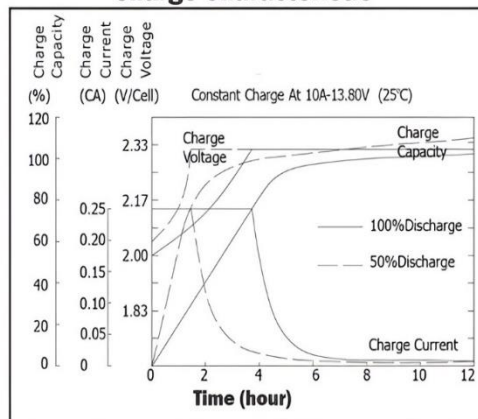
Constant power discharge characteristics (25°C)

Final Voltage	5Min	10Min	15min	30min	1hr	2hr	3hr	5hr	8hr	10hr	20hr
1.60 V/Cell	209.8	143.9	114.9	73.9	45.6	26.7	19.3	13.7	9.1	7.7	4.05
1.70 V/Cell	199.3	136.8	110.7	71.1	43.7	26.3	19.03	13.5	9.8	7.6	4.02
1.75 V/Cell	199.3	132	107.7	69	42.6	26.1	18.8	13.3	9.03	7.5	4.0
1.80 V/Cell	187.36	128	104.8	67.4	41.5	25.8	18.7	13.23	8.95	7.5	3.9

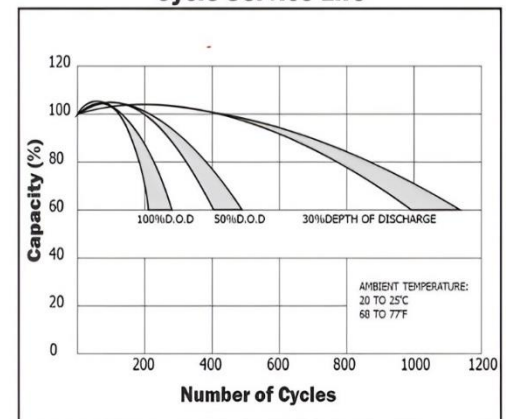
Self Discharge Characteristics



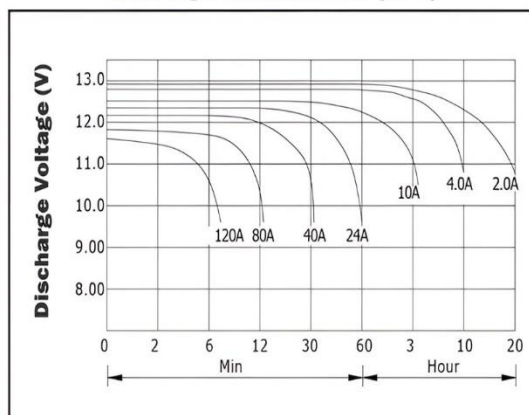
Charge Characteristic



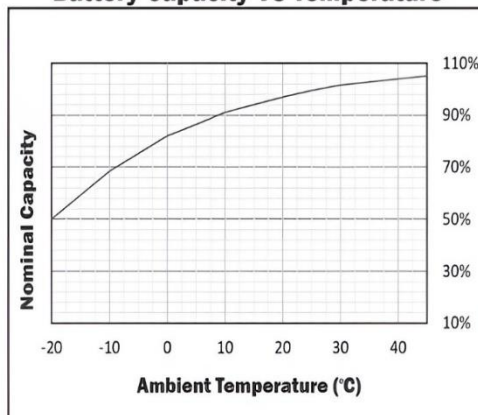
Cycle Service Life



Discharge Characteristic (25°C)



Battery Capacity VS Temperature



Service Life Time

