

## 12V/18AH VRLA Battery

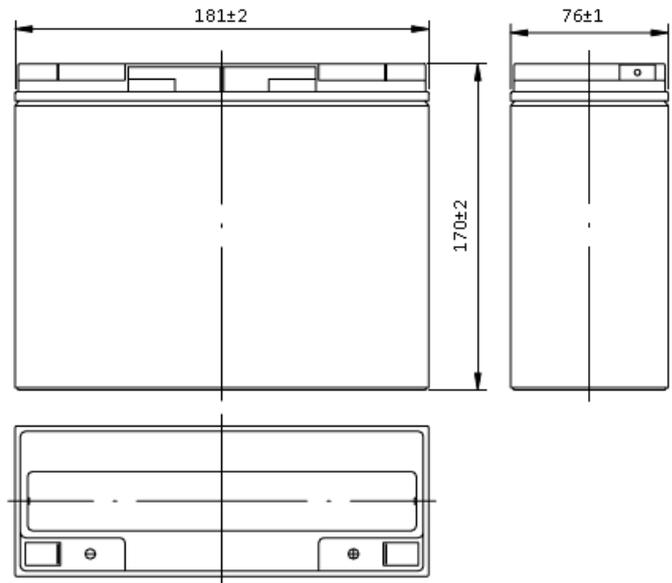
### Product Overview

Alston Systems Valve Regulated Lead Acid Batteries are small volume, lightweight, and high discharge efficiency. Absorbed glass mat (AGM) design is used & are designed for high power density & long life applications.

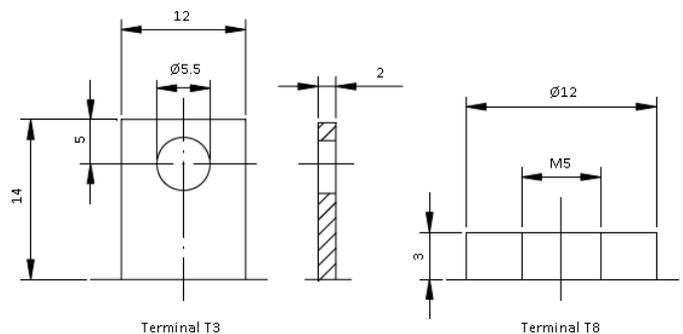


Nominal Voltage		12 V
Capacity (25°C)	10HR(10.5V)	18AH
	5HR(10.5V)	16.7AH
	1HR(9.60V)	11.7AH
Dimensions	Length	181±2mm (7.13inch)
	Width	76±1mm (2.99inch)
	Height	170±2mm (6.69inch)
	Total Height	170±2mm (6.69inch)
Approx. Weight		5.6kg (12.3lbs)±4%
Terminal type		T3/T8
Internal resistance (Fully charged, 25°C)		Approx. 19mΩ
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating Temperature		25°C±3°C(77°F±5°F)
Operating temperature range	Discharge	-15°C~50°C(5°F~122°F)
	Charge	-10°C~50°C(14°F~122°F)
	Storage	-20°C~50°C(-4°F~122°F)
Float charging voltage(25°C)	13.60 to 13.80V Temperature compensation: -18mV/°C	
Cyclic charging voltage(25°C)	14.50 to 14.90V Temperature compensation: -30mV/°C	
Maximum charging current	5.4A	
Terminal material	Copper	
Maximum discharge current	270A (5 sec.)	
Designed floating life(20°C)	5years	

### Dimensions



### Terminal



F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	487	390	219	135	74.8	54.5	43.7	37.3	24.2	20.4	11.0
1.65V	473	381	214	133	74.4	54.2	43.5	37.0	24.1	20.3	10.9
1.70V	453	366	208	130	73.7	53.8	43.2	36.8	23.9	20.2	10.9
1.75V	434	354	203	127	72.6	53.5	42.9	36.5	23.8	20.1	10.8
1.80V	409	335	195	124	70.8	51.9	41.6	35.4	23.0	19.7	10.6

### Ordering Information

Part Number	Description
91120183	Alston Systems, 12V/18AH VRLA Battery