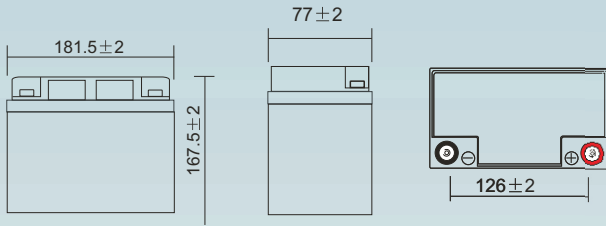


VO Series

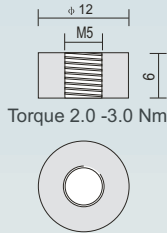
(VRLA 5yr design life in float service)

Dimensions (mm)



Standard terminal (mm)

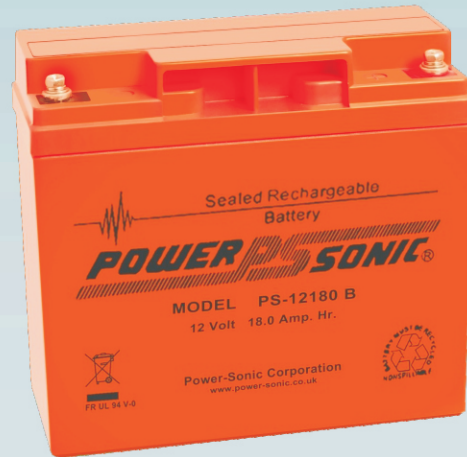
T12 Threaded Insert 5mm Stud



Physical Specification

Nominal Voltage		12V
Nominal Capacity		18.0 AH
Dimension	Length	181.5 ± 2 mm
	Width	77 ± 2 mm
	Container Height	167.5 ± 2 mm
	Total Height (with terminal)	167.5 ± 2 mm
Weight		Approx 5.4kg
Standard Terminal		T12

PS-12180V0



Discharge Characteristics (25°C, 77°F)

Rated Capacity	20hr Rate(1.80V/cell)	18.00AH	Constant Voltage Charge	Cycle	Initial Charging Current Less than 4.5A Voltage 14.40V ~ 15.0V at 25°C (77°F)
	10hr Rate(1.80V/cell)	16.70AH			
Capacity Affected by Temperature	5hr Rate(1.75V/cell)	15.30AH	Standby	Recommended Charge Voltage 13.5V ~ 13.8V at 25°C (77°F)	
	3hr Rate(1.75V/cell)	13.40AH			
	1hr Rate(1.60V/cell)	11.20AH			
40°C (104°F)		103%			
25°C (77°F)		100%			
0°C (32°F)		86%			

Internal Resistance mΩ

Approx 16.0 mΩ

Constant Current Discharge (Amperes) at 25°C (77°F)

F.V(V/cell)	5min	10min	15min	20min	30min	45min	1H	2H	3H	4H	5H	6H	8H	10H	20H
1.85	34.3	22.8	18.8	16.5	13.5	10.6	8.75	5.37	4.04	3.33	2.82	2.45	1.94	1.62	0.891
1.80	41.0	27.3	22.1	18.9	15.1	11.6	9.47	5.76	4.32	3.54	2.97	2.55	2.02	1.67	0.900
1.75	49.2	31.3	24.6	20.9	16.2	12.4	10.00	6.00	4.46	3.62	3.05	2.63	2.07	1.72	0.909
1.70	57.1	35.0	27.1	22.6	17.3	13.0	10.40	6.21	4.58	3.71	3.12	2.68	2.10	1.74	0.925
1.65	63.0	37.9	29.0	24.2	18.2	13.6	10.80	6.41	4.70	3.80	3.19	2.73	2.14	1.76	0.938
1.60	69.5	41.0	31.2	25.6	19.2	14.1	11.20	6.57	4.82	3.90	3.25	2.80	2.18	1.79	0.943

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V(V/cell)	5min	10min	15min	20min	30min	45min	1H	2H	3H	4H	5H	6H	8H	10H	20H
1.85	63.9	42.6	35.3	31.1	25.7	20.3	16.9	10.4	7.88	6.50	5.53	4.81	3.84	3.21	1.77
1.80	74.2	50.1	40.9	35.4	28.5	22.1	18.2	11.1	8.37	6.88	5.79	5.00	3.97	3.31	1.78
1.75	88.2	56.8	45.0	38.7	30.3	23.5	19.1	11.5	8.62	7.02	5.93	5.12	4.07	3.39	1.80
1.70	100.9	62.6	49.1	41.7	32.2	24.5	19.9	11.9	8.82	7.17	6.05	5.23	4.12	3.44	1.83
1.67	109.7	66.8	52.0	44.2	33.6	25.4	20.4	20.4	9.03	7.33	6.16	5.31	4.18	3.47	1.85
1.60	118.8	71.3	54.9	45.9	34.9	26.2	21.1	21.1	9.20	7.49	6.28	5.42	4.26	3.53	1.86



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