

VO SERIES (VRLA 5yr Life)

Dimensions (mm)		
Standard Terminal (mm)		
Physical Specification		
Nominal Voltage	12V	
Nominal Capacity	4.5 AH	
Dimension	Length	90 ± 2 mm
	Width	70 ± 2 mm
	Container Height	101 ± 2 mm
	Total Height (with terminal)	107 ± 2 mm
Weight	Approx 1.59kg	
Standard Terminal	F1	
Case and Cover Material	ABS (UL94-V0)	

PS-1242 V0 12V 4.5AH					
Discharge Characteristics (25°C, 77°F)					
Rated Capacity	20h Rate (225mA)	4.50AH	Constant Voltage Charge	Cycle	Initial Charging Current Less than 1.12A Voltage 14.40V ~ 15.0V at 25°C (77°F)
	10h Rate (430mA)	4.30AH			
	8h Rate (524mA)	4.19AH			
	5h Rate (774mA)	3.87AH			
Capacity Affected by Temperature	1h Rate (2.93A)	2.93AH	Standby	Recommended Charge Current less than 1.12A Voltage 13.5V ~ 13.8V at 25°C (77°F)	
	40°C (104°F)	103%			
	25°C (77°F)	100%			
	0°C (32°F)	86%			
Internal Resistance mΩ					
40.0 mΩ					

Constant Current Discharge (Amperes) at 25°C (77°F)																			
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	100h
1.85V/cell	8.57	6.58	5.45	4.71	3.64	2.68	2.26	1.34	1.047	0.851	0.694	0.603	0.486	0.406	0.223	0.191	0.101	0.069	0.051
1.80V/cell	11.50	8.41	6.59	5.57	4.30	3.12	2.53	1.46	1.127	0.909	0.745	0.646	0.515	0.430	0.225	0.194	0.103	0.071	0.052
1.75V/cell	12.97	9.24	7.19	5.99	4.46	3.24	2.65	1.51	1.148	0.929	0.774	0.664	0.524	0.434	0.227	0.196	0.104	0.071	0.052
1.70V/cell	14.28	10.07	7.68	6.30	4.65	3.37	2.74	1.58	1.179	0.954	0.784	0.678	0.532	0.438					
1.67V/cell	14.98	10.54	7.92	6.55	4.80	3.41	2.79	1.60	1.206	0.968	0.793	0.684	0.536	0.443					
1.60V/cell	17.37	11.80	8.73	7.13	5.18	3.60	2.93	1.67	1.267	1.018	0.833	0.707	0.545	0.452					
Constant Power Discharge (Watts/cell) at 25°C (77°F)																			
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	100h
1.85V/cell	94.0	72.9	61.0	53.3	41.7	31.0	26.3	15.6	12.2	10.0	8.17	7.11	5.75	4.82	2.65	2.32	1.24	0.843	0.617
1.80V/cell	124.8	92.1	72.7	62.1	48.4	35.7	29.2	16.9	13.1	10.6	8.72	7.59	6.09	5.09	2.67	2.35	1.25	0.856	0.627
1.75V/cell	137.8	99.6	78.5	66.2	49.9	36.7	30.4	17.5	13.3	10.8	9.03	7.77	6.18	5.14	2.69	2.36	1.26	0.863	0.633
1.70V/cell	147.5	106.1	82.6	69.0	51.6	38.0	31.2	18.1	13.6	11.1	9.14	7.93	6.26	5.19					
1.67V/cell	153.6	110.5	84.9	71.4	53.1	38.3	31.8	18.4	13.9	11.2	9.22	7.99	6.30	5.24					
1.60V/cell	172.8	120.3	91.7	76.7	56.6	40.1	33.0	19.0	14.5	11.7	9.63	8.22	6.39	5.33					