

VO SERIES (5yr Design Life in Float Service at 20°C)

Dimensions (mm)		
Standard Terminal (mm)		
Physical Specification		
Nominal Voltage	12V	
Nominal Capacity (20HR)	7.0 AH	
Dimension	Length	151 ± 2 mm
	Width	65 ± 2 mm
	Container Height	94 ± 2 mm
	Total Height (with terminal)	100 ± 2 mm
Weight	Approx 2.18kg	
Standard Terminal	F1	
Case and Cover Material	ABS (UL94-V0)	

PS-1270 VO 12V 7.0AH					
Operating Temperature Range					
Storage (In fully charged condition)	- 20°C to + 60°C				
Charge	- 15°C to + 50°C				
Discharge	- 20°C to + 60°C				
Container and Lid Material/Flammability Rating					
ABS UL94 V0					
Discharge Characteristics (25°C, 77°F)					
Rated Capacity	20h Rate (1.80V/cell)	7.00AH	Constant Voltage Charge	Cycle	Initial Charging Current Less than 1.75A Voltage 14.40V ~ 15.0V at 25°C (77°F)
	10h Rate (1.80V/cell)	6.53AH			
	5h Rate (1.75V/cell)	5.80AH			
	3h Rate (1.75V/cell)	5.13AH			
Capacity Affected by Temperature	1h Rate (1.60V/cell)	4.26AH	Standby	Recommended Charge Current less than 1.75A 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		23.0 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
1.85V/cell	16.0	11.7	9.97	8.46	6.17	4.52	3.60	2.14	1.60	1.30	1.10	0.95	0.756	0.626	0.343
1.80V/cell	19.2	13.7	11.3	9.20	6.65	4.80	3.83	2.24	1.66	1.35	1.14	0.99	0.783	0.653	0.350
1.75V/cell	21.5	14.9	12.0	9.70	6.92	4.99	3.98	2.31	1.71	1.38	1.16	1.01	0.795	0.663	0.357
1.70V/cell	23.4	15.9	12.8	10.2	7.18	5.12	4.05	2.36	1.75	1.41	1.19	1.03	0.812	0.672	0.361
1.65V/cell	25.5	16.8	13.4	10.6	7.43	5.28	4.17	2.40	1.77	1.43	1.21	1.04	0.823	0.680	0.365
1.60V/cell	26.8	17.6	13.8	10.9	7.64	5.42	4.26	2.46	1.81	1.46	1.23	1.06	0.837	0.690	0.371
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
1.85V/cell	30.3	22.3	19.2	16.4	12.0	8.86	7.09	4.23	3.17	2.59	2.20	1.91	1.52	1.26	0.694
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.37	7.52	4.42	3.30	2.69	2.27	1.97	1.57	1.31	0.704
1.75V/cell	39.8	28.0	22.8	18.6	13.4	9.72	7.79	4.55	3.37	2.74	2.31	2.00	1.59	1.33	0.716
1.70V/cell	42.8	29.5	24.0	19.3	13.8	9.89	7.88	4.61	3.42	2.78	2.34	2.03	1.61	1.33	0.718
1.65V/cell	45.7	30.7	24.8	19.8	14.1	10.1	8.02	4.65	3.45	2.80	2.36	2.05	1.62	1.34	0.720
1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.13	4.73	3.50	2.83	2.39	2.07	1.63	1.35	0.728