

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

Dimensions (mm)		
Standard Terminal (mm)		
Physical Specification		
Nominal Voltage	12V	
Nominal Capacity (20HR)	12.0 AH	
Dimension	Length	151 ± 2 mm
	Width	98 ± 2 mm
	Container Height	95 ± 2 mm
	Total Height (with terminal)	101 ± 2 mm
Weight	Approx 3.50kg	
Standard Terminal	F1	
Case and Cover Material	ABS (UL94-V0)	

PS-12120 VO					
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				
Discharge Characteristics (25°C, 77°F)					
Rated Capacity	20h Rate (1.80V/cell)	12.00AH	Constant Voltage Charge	Cycle	Initial Charging Current Less than 3.0A Voltage 14.40V ~ 15.0V at 25°C (77°F)
	10h Rate (1.80V/cell)	11.20AH			
	5h Rate (1.75V/cell)	10.20AH			
	3h Rate (1.75V/cell)	8.94AH			
Capacity Affected by Temperature	1h Rate (1.60V/cell)	7.49AH	Standby	Recommended Charge Current less than 3.0A 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		14.0 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	22.9	15.2	12.5	11.0	9.0	7.04	5.83	3.58	2.70	2.22	1.88	1.63	1.30	1.08	0.594
1.80V/cell	27.4	18.2	14.7	12.6	10.1	7.73	6.31	3.84	2.88	2.36	1.98	1.70	1.34	1.12	0.600
1.75V/cell	32.8	20.9	16.4	13.9	10.8	8.27	6.67	4.00	2.98	2.42	2.03	1.75	1.38	1.14	0.606
1.70V/cell	38.1	23.3	18.0	15.1	11.5	8.67	6.96	4.14	3.05	2.47	2.08	1.79	1.40	1.16	0.617
1.65V/cell	42.0	25.3	19.3	16.2	12.1	9.06	7.20	4.27	3.14	2.54	2.12	1.82	1.42	1.18	0.625
1.60V/cell	46.3	27.3	20.8	17.1	12.8	9.42	7.49	4.38	3.21	2.60	2.17	1.86	1.45	1.20	0.629
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	42.6	28.4	23.6	20.8	17.1	13.5	11.3	6.96	5.26	4.33	3.69	3.20	2.56	2.14	1.18
1.80V/cell	49.5	33.4	27.2	23.6	19.0	14.7	12.1	7.41	5.58	4.59	3.86	3.33	2.65	2.21	1.19
1.75V/cell	58.8	37.9	30.0	25.8	20.2	15.7	12.7	7.69	5.75	4.68	3.95	3.42	2.71	2.26	1.20
1.70V/cell	67.3	41.7	32.7	27.8	21.4	16.3	13.2	7.94	5.88	4.78	4.04	3.48	2.75	2.29	1.22
1.65V/cell	73.1	44.6	34.7	29.5	22.4	16.9	13.6	8.17	6.02	4.88	4.11	3.54	2.79	2.32	1.23
1.60V/cell	79.2	47.5	36.6	30.6	23.3	17.5	14.1	8.33	6.13	4.99	4.18	3.61	2.84	2.35	1.24