

VO SERIES (10yr Design Life in Float Service at 20°C)

Dimensions (mm)

Standard Terminal (mm)

T6 Threaded Insert 6mm Stud

Torque 3.9 ~5.4 Nm

Physical Specification

Nominal Voltage	12V	
Nominal Capacity (20HR)	40.0 AH	
Dimension	Length	197 ± 2 mm
	Width	165 ± 2 mm
	Container Height	156 ± 2 mm
	Total Height (with terminal)	170 ± 2 mm
Weight	Approx 13.2kg	
Standard Terminal	T6	
Case and Cover Material	ABS (UL94-V0)	

PS-12400 VO 12V 40AH

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)				10h Rate (1.80V/cell)				5h Rate (1.75V/cell)				3h Rate (1.75V/cell)				1h Rate (1.60V/cell)			
	40.60AH	38.00AH	33.10AH	29.60AH	23.60AH	40.60AH	38.00AH	33.10AH	29.60AH	23.60AH	40.60AH	38.00AH	33.10AH	29.60AH	23.60AH	40.60AH	38.00AH	33.10AH	29.60AH	23.60AH
Capacity Affected by Temperature	40°C (104°F)	103%	Constant Voltage Charge	Cycle	Initial Charging Current Less than 10.0A Voltage 14.40V ~ 15.0V at 25°C (77°F)	0°C (32°F)	100%	Standby	Recommended Charge Current less than 10.0A Voltage 13.5V ~ 13.8V at 25°C (77°F)											
	25°C (77°F)	86%																		

Internal Resistance mΩ

10.0 mΩ

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	44.5	37.3	33.2	27.5	21.20	18.20	11.80	8.84	7.24	6.09	5.34	4.28	3.68	1.96
1.80V/cell	50.9	42.0	36.7	29.9	22.90	19.20	12.60	9.50	7.70	6.46	5.66	4.51	3.80	2.03
1.75V/cell	57.9	47.3	40.5	32.5	25.00	20.90	13.10	9.88	7.97	6.61	5.83	4.66	3.90	2.08
1.70V/cell	65.3	52.5	44.7	35.5	26.90	22.10	13.90	10.40	8.32	6.99	6.11	4.85	4.05	2.14
1.65V/cell	70.1	56.2	47.6	37.4	28.50	22.90	14.40	10.80	8.65	7.21	6.33	5.02	4.17	2.20
1.60V/cell	77.1	61.6	51.7	39.9	29.60	23.60	14.70	11.10	8.84	7.39	6.46	5.11	4.25	2.24

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	83.0	70.5	63.2	53.0	41.2	35.4	23.10	17.40	14.30	12.10	10.60	8.54	7.36	3.93
1.80V/cell	93.9	78.1	68.9	56.7	44.1	37.2	24.60	18.60	15.10	12.70	11.20	8.96	7.58	4.06
1.75V/cell	104.9	87.0	75.4	61.1	47.7	40.3	25.50	19.30	15.60	13.00	11.50	9.24	7.78	4.16
1.70V/cell	115.9	95.2	82.6	66.3	51.2	42.5	26.80	20.20	16.30	13.70	12.00	9.62	8.07	4.26
1.65V/cell	123.3	101.1	87.2	69.4	53.7	43.7	27.70	21.00	16.80	14.10	12.40	9.92	8.29	4.39
1.60V/cell	132.6	109.0	93.7	73.6	55.5	44.8	28.20	21.40	17.20	14.40	12.60	10.10	8.45	4.45