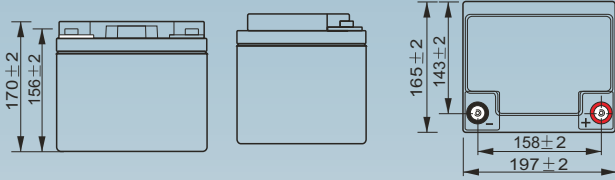


VO Series

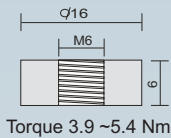
(10yr Design Life in Float Service at 20°C)

Dimensions (mm)



Standard terminal (mm)

T6 Threaded Insert 6mm Stud



Physical Specification

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

PS-12400 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	20hRate(1.80V/cell)	40.60AH	Cycle	Initial Charging Current Less than 10.0A Voltage 14.40V ~ 15.0V at 25°C (77°F)
	10hRate(1.80V/cell)	38.00AH		
	5hRate(1.75V/cell)	33.10AH		
	3hRate(1.75V/cell)	29.60AH		
Capacity Affected by Temperature	1hRate(1.60V/cell)	23.60AH	Standby	Recommended Charge Current less than 10.0A 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

10.0 mΩ

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

F.V(V/cell)	10min	15min	20min	30min	45min	1H	2H	3H	4H	5H	6H	8H	10H	20H
1.85	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
1.80	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
1.75	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
1.70	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
1.65	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
1.60	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(V/cell)	10min	15min	20min	30min	45min	1H	2H	3H	4H	5H	6H	8H	10H	20H
1.85	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
1.80	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
1.75	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
1.70	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
1.67	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
1.60	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



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