

PS RANGE (5yr Design Life in Float Service at 20°C)

Dimensions (mm)

Standard Terminal (mm)

Physical Specification

Nominal Voltage	6V	
Nominal Capacity (20HR)	4.5 AH	
Dimension	Length	70 ± 2 mm
	Width	47 ± 2 mm
	Container Height	100 ± 2 mm
	Total Height (with terminal)	106 ± 2 mm
Weight	Approx 0.81kg	
Standard Terminal	F1	
Case and Cover Material	ABS (UL94-HB)	

PS-640 6V 4.5AH

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)	4.50AH	Constant Voltage Charge	Cycle	Initial Charging Current Less than 1.12A Voltage 7.20V ~ 7.50V at 25°C (77°F)
	10h Rate (1.80V/cell)	4.19AH			
	5h Rate (1.75V/cell)	3.78AH			
	3h Rate (1.75V/cell)	3.30AH			
Capacity Affected by Temperature	1h Rate (1.60V/cell)	2.73AH	Standby	Recommended Charge Current less than 1.12A Voltage 6.75V ~ 6.90V at 25°C (77°F)	
	40°C (104°F)	103%			
	25°C (77°F)	100%			
	0°C (32°F)	86%			

Internal Resistance mΩ

25.0 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	8.64	6.02	4.97	4.31	3.46	2.66	2.17	1.33	1.01	0.831	0.706	0.611	0.486	0.404	0.223
1.80V/cell	10.6	7.19	5.76	4.87	3.83	2.90	2.34	1.41	1.06	0.874	0.736	0.638	0.504	0.419	0.225
1.75V/cell	12.6	8.13	6.35	5.31	4.09	3.08	2.46	1.47	1.10	0.901	0.756	0.654	0.518	0.427	0.227
1.70V/cell	14.3	8.96	6.88	5.70	4.29	3.20	2.57	1.53	1.14	0.924	0.775	0.670	0.525	0.434	0.231
1.65V/cell	15.7	9.64	7.27	5.98	4.47	3.32	2.67	1.58	1.17	0.943	0.792	0.683	0.534	0.440	0.234
1.60V/cell	16.5	10.0	7.58	6.17	4.60	3.40	2.73	1.63	1.19	0.966	0.808	0.696	0.545	0.447	0.236

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	16.3	11.5	9.55	8.35	6.74	5.21	4.28	2.63	2.01	1.66	1.41	1.23	0.977	0.815	0.450
1.80V/cell	19.8	13.6	11.0	9.37	7.41	5.65	4.58	2.78	2.10	1.73	1.46	1.27	1.01	0.838	0.452
1.75V/cell	23.2	15.2	12.0	10.1	7.86	5.96	4.80	2.88	2.16	1.78	1.49	1.30	1.03	0.849	0.453
1.70V/cell	26.0	16.6	12.9	10.8	8.20	6.16	4.97	2.98	2.22	1.81	1.52	1.32	1.04	0.858	0.459
1.65V/cell	28.3	17.6	13.4	11.2	8.48	6.36	5.15	3.05	2.27	1.84	1.55	1.34	1.05	0.866	0.463
1.60V/cell	29.2	18.1	13.9	11.4	8.62	6.44	5.22	3.13	2.31	1.87	1.57	1.36	1.07	0.876	0.464