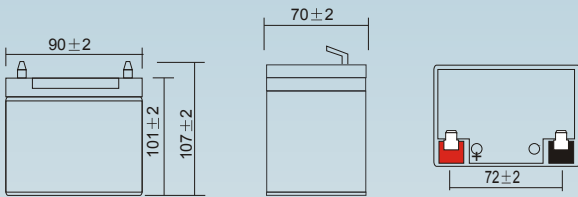


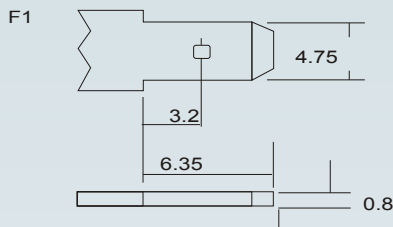
PS Range

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

Dimensions (mm)



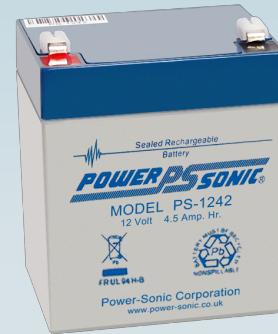
Standard terminal (mm)



Physical Specification

Nominal Voltage		12V
Nominal Capacity (20HR)		4.5AH
Dimension	Length	90 ± 2 mm
	Width	70 ± 2 mm
	Container Height	101 ± 2 mm
	Total Height (with terminal)	107 ± 2 mm
Weight		Approx 1.6kg
Standard Terminal		F1

PS-1242 12V 4.5AH



Discharge Characteristics (25°C, 77°F)

Rated Capacity	20hRate(1.80V/cell)			Constant Voltage Charge	Cycle	Initial Charging Current Less than 1.12A Voltage 14.40V ~ 15.0V at 25°C (77°F)
	10hRate(1.80V/cell)	5hRate(1.75V/cell)	1hRate(1.60V/cell)			
4.50AH	4.19AH	3.85AH	2.83AH	Standby	Recommended Charge Current less than 1.12A Voltage 13.5V ~ 13.8V at 25°C (77°F)	
Capacity Affected by Temperature	40°C (104°F)	25°C (77°F)	0°C (32°F)			
	103%	100%	86%			

Internal Resistance mΩ

40.0 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	8.57	6.58	5.45	4.71	3.64	2.68	2.26	1.34	1.05	0.85	0.69	0.60	0.486	0.406	0.223
1.80V/cell	11.5	8.41	6.59	5.57	4.30	3.12	2.53	1.46	1.13	0.91	0.75	0.65	0.515	0.419	0.225
1.75V/cell	13.0	9.24	7.19	5.99	4.46	3.24	2.65	1.51	1.15	0.93	0.77	0.66	0.524	0.430	0.227
1.70V/cell	14.3	10.1	7.68	6.30	4.65	3.37	2.74	1.55	1.18	0.95	0.78	0.68	0.532	0.438	0.231
1.65V/cell	15.7	10.9	8.17	6.69	4.90	3.45	2.80	1.58	1.23	0.99	0.81	0.69	0.540	0.447	0.234
1.60V/cell	17.4	11.8	8.73	7.13	5.18	3.60	2.83	1.64	1.27	1.02	0.83	0.71	0.545	0.452	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	15.7	12.2	10.2	8.88	6.95	5.16	4.37	2.60	2.04	1.66	1.36	1.18	0.959	0.803	0.441
1.80V/cell	20.8	15.4	12.1	10.3	8.07	5.96	4.86	2.82	2.18	1.77	1.45	1.27	1.014	0.827	0.445
1.75V/cell	23.0	16.6	13.1	11.0	8.31	6.12	5.06	2.91	2.22	1.80	1.49	1.30	1.030	0.848	0.449
1.70V/cell	24.6	17.7	13.8	11.5	8.60	6.34	5.21	2.98	2.27	1.85	1.52	1.32	1.043	0.864	0.457
1.65V/cell	26.7	18.9	14.5	12.1	9.00	6.44	5.29	3.00	2.36	1.90	1.56	1.35	1.057	0.881	0.462
1.60V/cell	28.8	20.1	15.3	12.8	9.43	6.68	5.31	3.12	2.42	1.96	1.61	1.37	1.065	0.889	0.464



Power-Sonic Europe Limited
3 Buckingham Square, Wickford, Essex, SS11 8YQ
Tel: +44 (0)1268 560686 Fax: +44 (0)1268 560902
sales@power-sonic.co.uk
www.power-sonic.co.uk