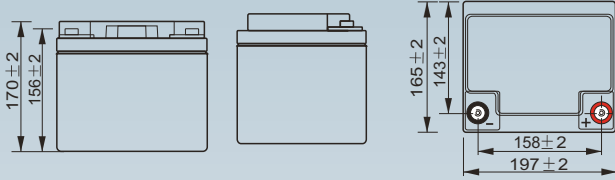


## PS Range

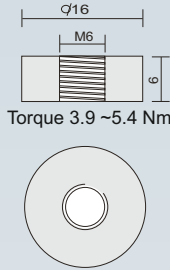
(10yr Design Life in Float Service at 20°C)

### Dimensions (mm)



### Standard terminal (mm)

T6 Threaded Insert 6mm Stud



### Physical Specification

Nominal Voltage		12V
Nominal Capacity		45.0 AH
Dimension	Length	197 ± 2 mm
	Width	165 ± 2 mm
	Height To terminal	156 ± 2 mm
	Container Height	170 ± 2 mm
Weight		Approx 14.5kg
Standard Terminal		T6

## PS-12450 12V 45AH



### Discharge Characteristics (25°C, 77°F)

Rated Capacity	20hr Rate(1.80V/cell)	48.1AH	Constant Voltage Charge	Cycle	Initial Charging Current Less than 12.02A Voltage 14.4V ~ 15.0V at 25°C (77°F)
	10hr Rate(1.80V/cell)	45.0AH			
Capacity Affected by Temperature	5hr Rate(1.75V/cell)	39.1AH	Standby	Recommended Charge Current less than 12.02A Voltage 13.5V ~ 13.8V at 15°C (77°F)	
	3hr Rate(1.75V/cell)	35.1AH			
	1hr Rate(1.60V/cell)	27.9AH			
	40°C (104°F)	103%			
	25°C (77°F)	100%			
	0°C (32°F)	86%			

### Internal Resistance mΩ

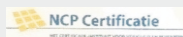
Approx 9.0 mΩ

### Constant Current Discharge (Amperes) at 20°C(68°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	52.7	44.3	39.3	32.6	25.1	21.5	13.9	10.5	8.58	7.22	6.32	5.07	4.36	2.33
1.80V/cell	60.2	49.7	43.4	35.4	27.1	22.7	15.0	11.3	9.12	7.65	6.70	5.34	4.50	2.41
1.75V/cell	68.4	56.0	48.0	38.5	29.6	24.8	15.6	11.7	9.43	7.83	6.91	5.52	4.62	2.47
1.70V/cell	77.3	62.2	53.0	42.0	31.9	26.2	16.4	12.3	9.86	8.28	7.24	5.75	4.80	2.53
1.65V/cell	83.0	66.6	56.4	44.3	33.7	27.1	17.0	12.8	10.2	8.54	7.49	5.94	4.93	2.61
1.60V/cell	91.3	72.9	61.2	47.3	35.0	27.9	17.4	13.1	10.5	8.75	7.65	6.05	5.04	2.65

### Constant Power Discharge (Watts) at 20°C(68°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	98.3	83.5	74.8	62.7	48.8	41.9	27.3	20.6	16.9	14.3	12.6	10.1	8.72	4.66
1.80V/cell	111.2	92.5	81.5	67.1	52.3	44.0	29.2	22.0	17.9	15.1	13.3	10.6	8.98	4.81
1.75V/cell	124.3	103.0	89.3	72.3	56.5	47.8	30.2	22.8	18.5	15.4	13.6	10.9	9.21	4.93
1.70V/cell	137.2	112.7	97.8	78.5	60.6	50.4	31.8	24.0	19.3	16.2	14.3	11.4	9.56	5.05
1.65V/cell	146.0	119.8	103.3	82.2	63.6	51.7	32.8	24.8	19.9	16.7	14.7	11.8	9.81	5.20
1.60V/cell	157.0	129.0	111.0	87.1	65.7	53.0	33.4	25.4	20.3	17.0	15.0	11.9	10.0	5.28



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