

## PS RANGE (VRLA 10yr Life)

Dimensions (mm)		
Standard Terminal (mm)		
T6 Threaded Insert 6mm Stud Torque 3.9 ~5.4 Nm		
Physical Specification		
Nominal Voltage	12V	
Nominal Capacity (20HR)	100.0 AH	
Dimension	Length	305 ± 2 mm
	Width	168 ± 2 mm
	Container Height	207 ± 2 mm
	Total Height (with terminal)	215 ± 2 mm
Weight	Approx 30.6kg	
Standard Terminal	T6	
Case and Cover Material	ABS (UL94-HB)	

PS-121000 12V 100AH					
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)	100.00AH	Constant Voltage Charge	Cycle	Initial Charging Current Less than 25.0A Voltage 14.40V ~ 15.0V at 25°C (77°F)
	10h Rate (1.80V/cell)	95.20AH			
	5h Rate (1.75V/cell)	83.00AH			
	3h Rate (1.75V/cell)	73.50AH			
Capacity Affected by Temperature	1h Rate (1.60V/cell)	57.90AH	Standby		Recommended Charge Current less than 25.0A 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					
Approx 4.9 mΩ					

Constant Current Discharge (Amperes) at 25°C (77°F)												
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	108.3	90.0	69.9	55.4	44.8	29.2	22.0	18.0	15.3	10.7	9.12	4.85
1.80V/cell	120.1	99.0	75.4	58.8	47.2	31.0	23.2	18.9	16.0	11.2	9.52	5.00
1.75V/cell	133.2	108.4	81.1	62.9	50.9	32.5	24.5	19.8	16.6	11.5	9.73	5.10
1.70V/cell	145.6	118.4	89.1	65.7	53.8	34.3	25.7	20.6	17.3	11.9	10.0	5.20
1.65V/cell	154.1	125.0	93.9	69.7	55.7	35.5	26.7	21.3	17.9	12.3	10.3	5.33
1.60V/cell	168.9	135.7	99.8	72.3	57.9	37.0	27.6	22.0	18.5	12.6	10.5	5.45
Constant Power Discharge (Watts/cell) at 25°C (77°F)												
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	203.2	170.6	133.9	107.0	87.1	57.0	43.1	35.4	30.1	21.1	18.1	9.65
1.80V/cell	222.3	184.9	142.3	112.2	91.1	60.2	45.2	37.0	31.4	22.1	18.9	9.94
1.75V/cell	243.6	200.6	151.8	119.4	97.8	62.8	47.6	38.5	32.5	22.7	19.3	10.1
1.70V/cell	262.4	217.4	165.9	124.2	103.0	66.1	49.8	40.0	33.7	23.5	19.9	10.3
1.65V/cell	276.8	228.6	174.0	131.3	106.2	68.1	51.5	41.3	34.9	24.1	20.3	10.6
1.60V/cell	297.3	244.6	183.0	134.8	109.4	70.4	52.9	42.4	35.9	24.7	20.7	10.8