

PW12-33 12V-33Ah

PW SERIES VRLA BATTERY



PW12-33 12V-33Ah



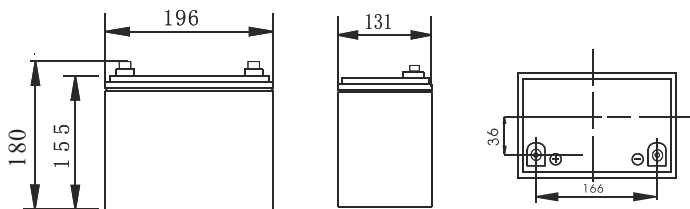
Physical Specification

Part Number:	PW12-33 (12V 33Ah)
Length:	196 mm (7.72 inches)
Width:	131 mm (5.16 inches)
Height:	155 mm (6.10 inches)
Total Height:	180 mm (7.09 inches)
Approx Weight:	9.50 kg (20.90 lbs) ± 3%

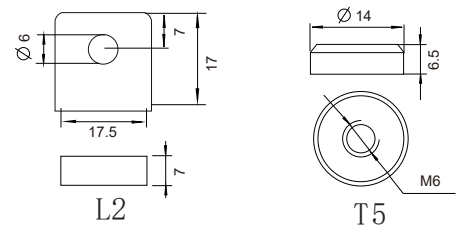
Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 hour rate)		33 Ah	
	Cells per battery		6	
Dimension	Length	Width	Height	Total Height
	196mm (7.72 inches)	131mm (5.16 inches)	155mm (6.10 inches)	180mm (7.09 inches)
Capacity @25°C (77°F)	10 hour rate (3.3A,10.8V)	5 hour rate (5.3A,10.5V)	3 hour rate (7.9A,10.8V)	1 hour rate (19.8A,9.6V)
	33Ah	26.5Ah	23.7Ah	19.8Ah
Max. discharge current	330A (5 sec.)			
Internal Resistance	Full charged at 25°C : Approx 9.2mΩ			
Capacity affected by Temp. (20 Hour)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @25°C (77°F)	After 3 mnts storage		After 6 mnts storage	After 12 mnts storage
	91%		82%	64%
Charge Method @25°C (77°F)	Cycle Use		Float Use	
	14.40-14.70V (Initial charging current less than 9.9A)		13.50-13.80V	

Dimension



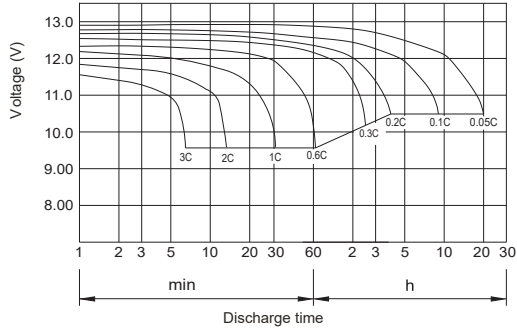
Terminal Type



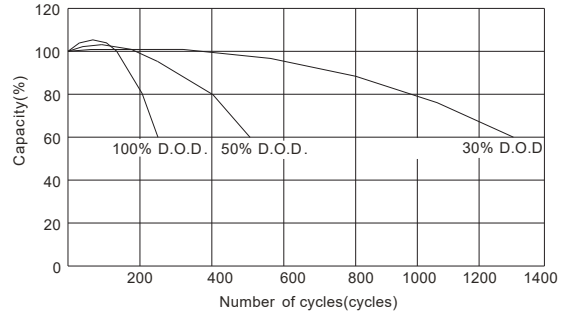
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V\TIME		5min	10min	15min	30min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
9.60V	A	105.7	69.6	56.1	37.6	19.8	11.6	8.5	6.6	5.4	3.9	3.5	1.9
	W	1090.8	743.6	601.9	404.5	213.8	126.8	94.4	74.3	61.9	44.2	40.0	21.8
10.20V	A	102.4	62.8	52.9	36.0	18.6	11.0	8.3	6.4	5.3	3.8	3.4	1.8
	W	1093.3	701.6	591.6	403.8	210.5	127.0	95.5	74.8	62.3	44.0	39.9	21.3
10.50V	A	99.0	56.2	46.2	33.7	18.0	10.8	8.1	6.3	5.3	3.7	3.3	1.8
	W	1081.4	639.3	527.6	387.4	208.6	124.8	93.8	74.1	61.9	43.9	39.4	21.5
10.80V	A	95.4	53.0	43.0	31.0	17.4	10.5	7.9	6.2	5.1	3.6	3.3	1.8
	W	1070.8	610.8	495.0	359.4	202.8	122.9	92.6	73.6	60.8	43.0	39.2	21.2
11.10V	A	92.2	49.6	39.7	27.7	16.8	10.2	7.6	6.1	5.0	3.5	3.1	1.7
	W	1045.9	574.7	461.7	324.3	197.9	120.9	90.2	72.3	59.9	42.3	37.8	20.4

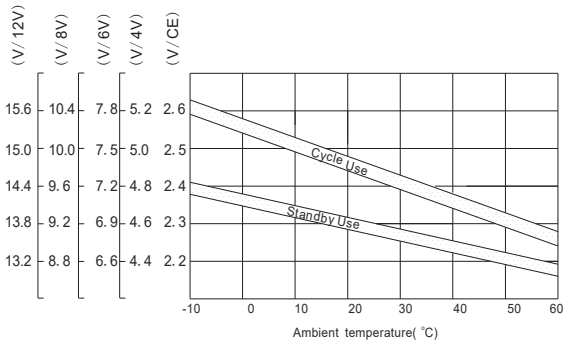
Discharge characteristic Curve



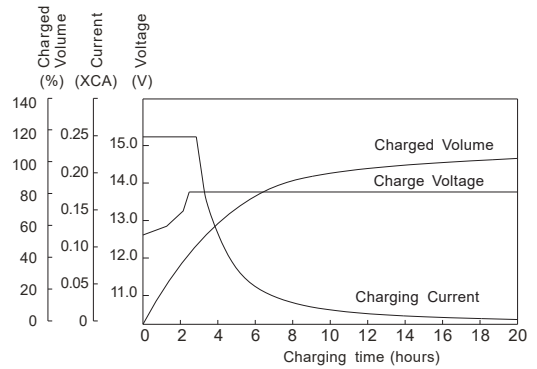
Cycle service life in relation to depth of discharge



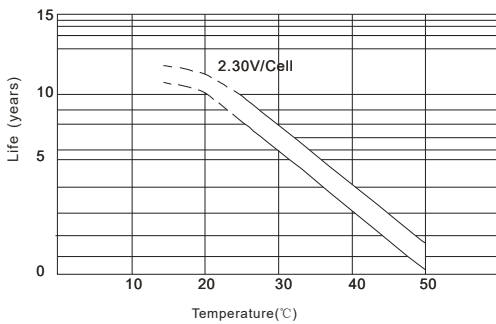
Relationship between charging voltage and temperature



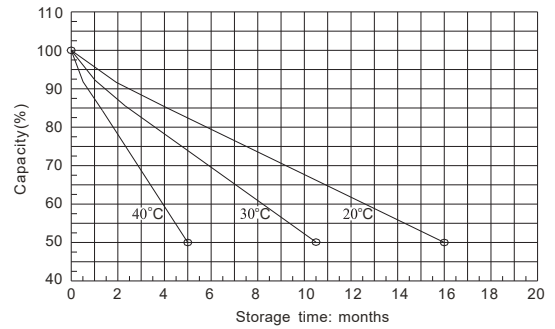
Constant voltage charging characteristic (0.25CA, at 25 °C)



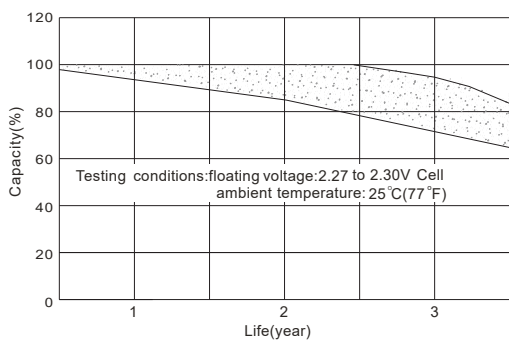
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

