

PW12-45 12V-45Ah

PW SERIES VRLA BATTERY



PW12-45 12V-45Ah



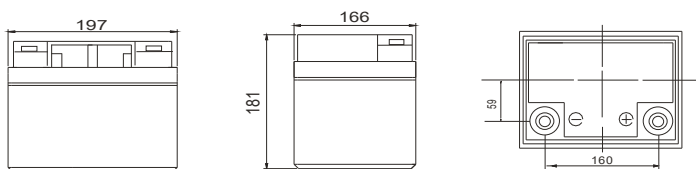
Physical Specification

Part Number:	PW12-45 (12V 45Ah)
Length:	197 mm (7.76 inches)
Width:	166 mm (6.54 inches)
Height:	174 mm (6.85 inches)
Total Height:	181 mm (7.13 inches)
Approx Weight:	13.45 kg (29.64 lbs) ± 3%

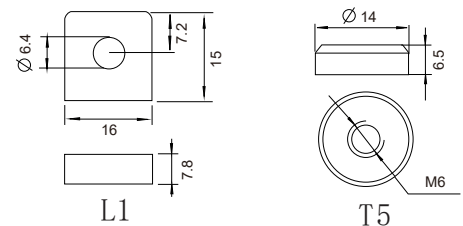
Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 hour rate)		40 Ah	
	Cells per battery		6	
Dimension	Length	Width	Height	Total Height
	197mm (7.76 inches)	166mm (6.54 inches)	174mm (6.85 inches)	181mm (7.13 inches)
Capacity @25°C (77°F)	10 hour rate(4.5A,10.8V)	5 hour rate(7.0A,10.5V)	3 hour rate(10.5A,10.8V)	1 hour rate(26.4A,9.6V)
	45Ah	35Ah	31.5Ah	26.4Ah
Max. discharge current	450A (5 sec.)			
Internal Resistance	Full charged at 25°C : Approx 8.0mΩ			
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 13.5A)		13.50-13.80V	

Dimension



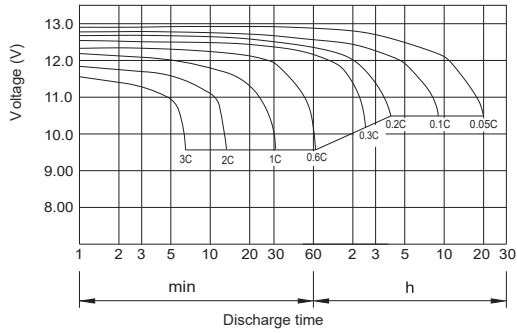
Terminal Type



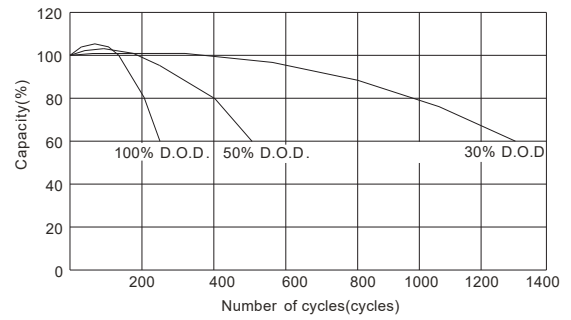
Constant Current Discharge (Amperes) at 25°C (77°F)

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	140.9	92.8	74.8	50.2	26.4	15.4	11.3	8.8	7.3	5.1	4.6	2.5
	W	1454.4	991.5	802.5	539.3	285.1	169.1	125.9	99.0	82.5	59.0	53.4	29.0
10.20V	A	136.5	83.8	70.5	48.0	24.8	14.7	11.0	8.6	7.1	5.0	4.5	2.4
	W	1457.7	935.4	788.8	538.4	280.7	169.4	127.4	99.8	83.1	58.7	53.2	28.4
10.50V	A	132.0	74.9	61.6	44.9	24.0	14.3	10.7	8.4	7.0	5.0	4.4	2.4
	W	1441.9	852.4	703.5	516.5	278.2	166.4	125.1	98.8	82.5	58.5	52.6	28.6
10.80V	A	127.2	70.6	57.3	41.4	23.2	14.0	10.5	8.3	6.9	4.8	4.4	2.4
	W	1427.7	814.4	660.0	479.2	270.4	163.9	123.5	98.2	81.1	57.4	52.3	28.3
11.10V	A	123.0	66.2	52.9	37.0	22.4	13.6	10.1	8.1	6.7	4.7	4.2	2.2
	W	1394.6	766.3	615.6	432.4	263.9	161.2	120.2	96.4	79.8	56.4	50.5	27.2

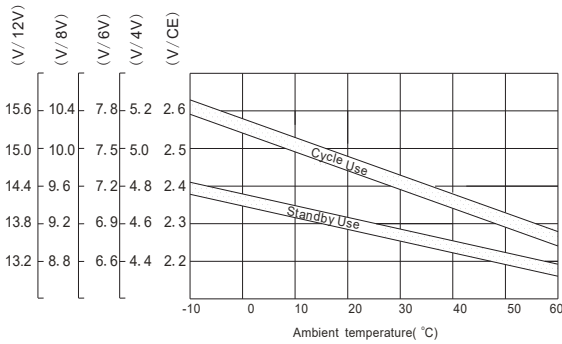
Discharge characteristic Curve



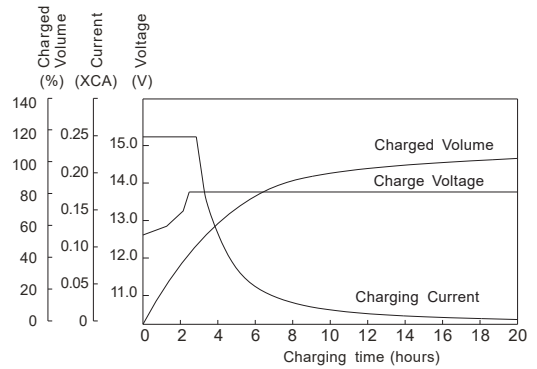
Cycle service life in relation to depth of discharge



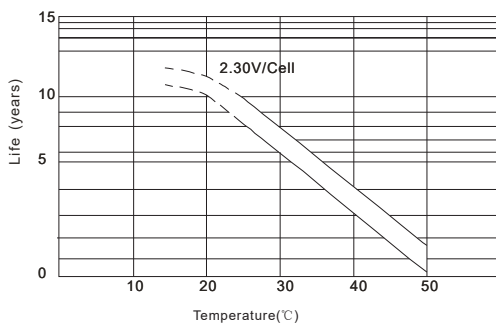
Relationship between charging voltage and temperature



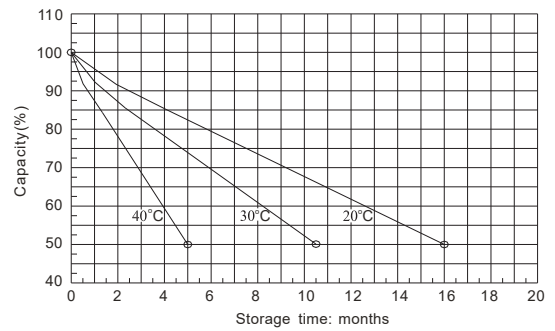
Constant voltage charging characteristic (0.25CA, at 25 °C)



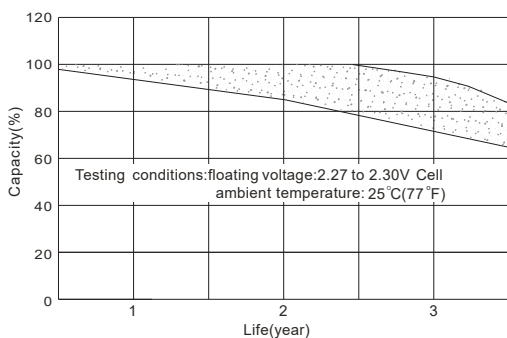
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

