

PW12-40 12V-40Ah

PW SERIES VRLA BATTERY



PW12-40 12V-40Ah



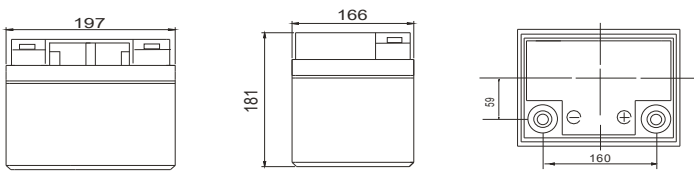
Physical Specification

Part Number:	PW12-40 (12V 40Ah)
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:	11.80 kg (26.01 lbs) ± 3%

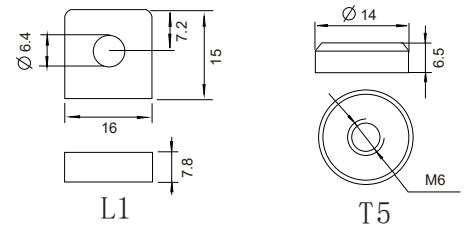
Specification

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 (4.0A,10.8V)	5 hour rate (6.4A,10.5V)	3 hour rate (9.5A,10.8V)	1 hour rate (24A,9.6V)
	40Ah	32Ah	28.5Ah	24Ah
Max. discharge current	400A (5 sec.)			
Internal Resistance	Full charged at 25°C : Approx 9.0mΩ			
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 12A)		13.50-13.80V	

Dimension



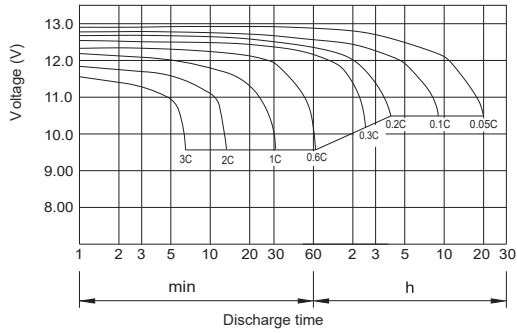
Terminal Type



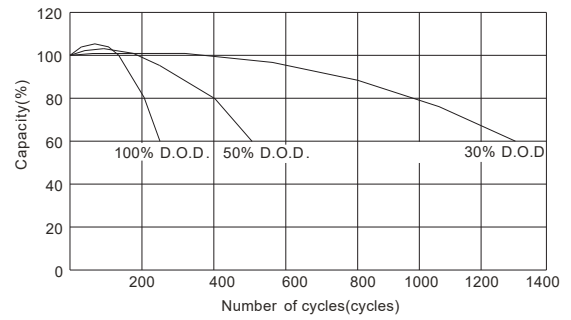
Constant Current Discharge (Amperes) at 25°C (77°F)

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	128.1	84.4	68.0	45.6	24.0	14.0	10.3	8.0	6.6	4.7	4.2	2.3
	W	1322.2	901.4	729.5	490.3	259.2	153.7	114.4	90.0	75.0	53.6	48.5	26.4
10.20V	A	124.1	76.2	64.1	43.6	22.6	13.4	10.0	7.8	6.5	4.6	4.1	2.2
	W	1325.2	850.4	717.1	489.5	255.2	154.0	115.8	90.7	75.5	53.4	48.4	25.8
10.50V	A	120.0	68.1	56.0	40.8	21.8	13.0	9.8	7.7	6.4	4.5	4.0	2.2
	W	1310.8	774.9	639.5	469.5	252.9	151.2	113.7	89.9	75.0	53.2	47.8	26.0
10.80V	A	115.7	64.2	52.1	37.6	21.1	12.7	9.5	7.6	6.2	4.4	4.0	2.2
	W	1297.9	740.4	600.0	435.6	245.8	149.0	112.2	89.3	73.8	52.1	47.5	25.7
11.10V	A	111.8	60.2	48.1	33.6	20.4	12.4	9.2	7.4	6.1	4.3	3.8	2.0
	W	1267.8	696.7	559.7	393.1	239.	146.6	109.3	87.7	72.6	51.3	45.9	24.7

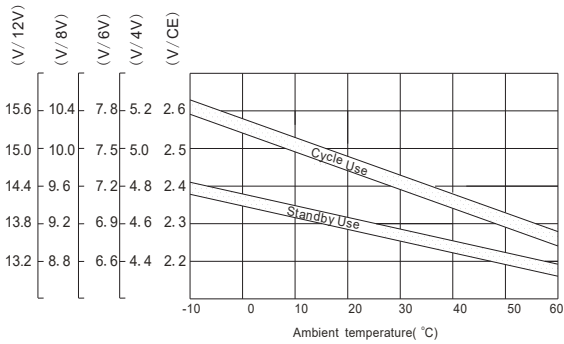
Discharge characteristic Curve



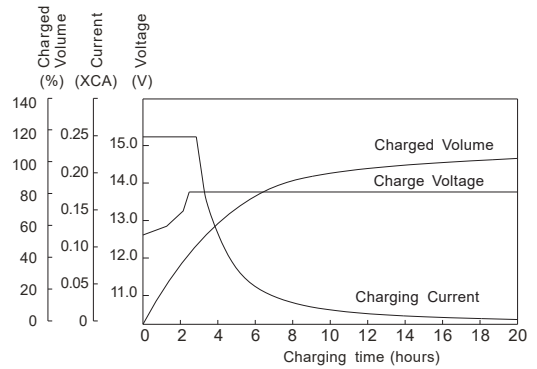
Cycle service life in relation to depth of discharge



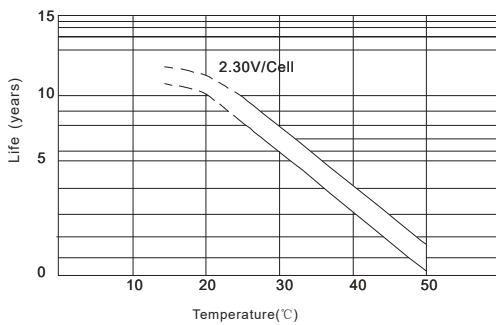
Relationship between charging voltage and temperature



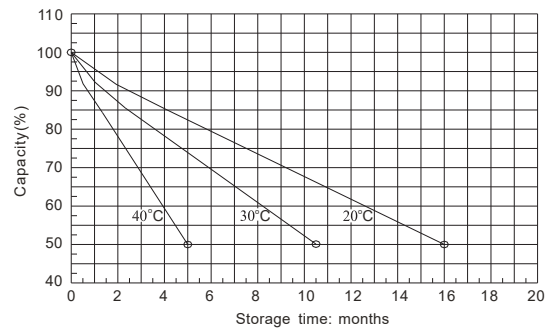
Constant voltage charging characteristic (0.25CA, at 25 °C)



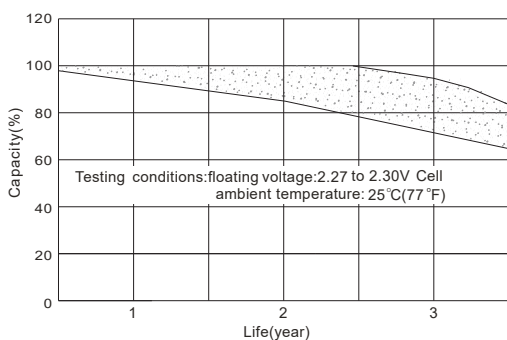
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

