

# PW12-05 12V-5Ah

## PW SERIES VRLA BATTERY



### PW12-05 12V-5Ah



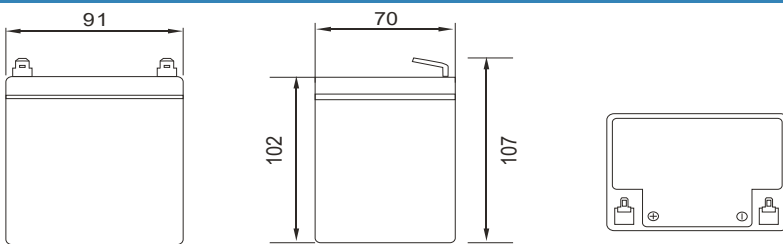
### Physical Specification

Part Number:	<b>PW12-05 (12V 5Ah)</b>
Length:	<b>91mm (3.58 inches)</b>
Width:	<b>70mm (2.75 inches)</b>
Height:	<b>102mm (4.01 inches)</b>
Total Height:	<b>107mm (4.21 inches)</b>
Approx Weight:	<b>1.41kg(3.10lbs) ± 3%</b>

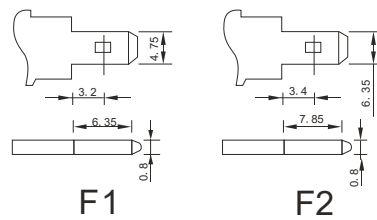
### Specification

Battery Model	Nominal Voltage		<b>12V</b>	
	Rated capacity (20 hour rate)		<b>5 Ah</b>	
	Cells per battery		<b>6</b>	
Dimension	Length	Width	Height	Total Height
	91mm (3.58 inches)	70mm (2.75 inches)	102mm (4.01 inches)	107mm (4.21 inches)
Capacity @25°C (77°F)	20 hour rate (0.249A,10.5V)	10 hour rate (0.482A,10.8V)	5 hour rate (0.924A,10.5V)	1 hour rate (3.0A,9.6V)
	4.98Ah	9.64Ah	4.62Ah	3.0Ah
Max. discharge current	75A (5 Sec.)			
Internal Resistance	Full charged at 25°C (77°F) Approx 36mΩ			
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 1.5A)		13.50-13.80V	

### Dimension



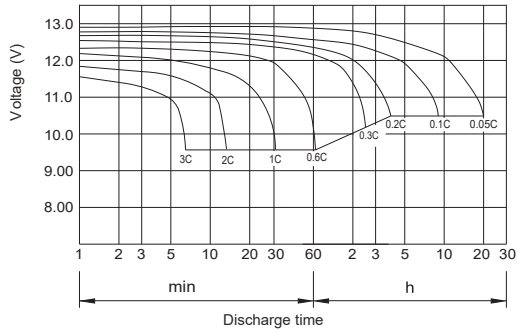
### Terminal Type



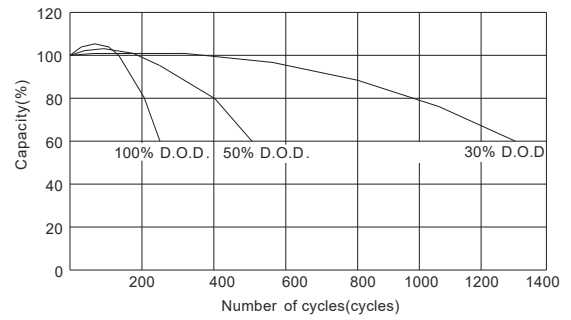
### Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	16.500	11.502	8.700	5.120	3.000	2.196	1.922	1.369	0.934	0.624	0.508	0.274
	30.517	21.957	16.791	10.199	5.985	4.384	3.846	2.739	1.870	1.249	1.017	0.547
1.67V	14.648	10.734	8.248	5.011	2.978	2.174	1.912	1.362	0.929	0.619	0.501	0.260
	27.089	20.488	15.931	9.986	5.942	4.342	3.830	2.730	1.863	1.241	1.004	0.521
1.70V	13.867	10.350	8.045	4.967	2.957	2.172	1.908	1.359	0.929	0.613	0.494	0.253
	25.648	19.768	15.550	9.899	5.906	4.339	3.822	2.724	1.863	1.229	0.991	0.508
1.75V	12.550	9.739	7.706	4.879	2.913	2.143	1.896	1.350	0.924	0.611	0.490	0.249
	23.214	18.606	14.911	9.732	5.833	4.287	3.797	2.708	1.854	1.227	0.984	0.500
1.80V	11.213	9.084	7.389	4.770	2.891	2.128	1.884	1.343	0.922	0.606	0.482	0.241
	20.745	17.361	14.321	9.518	5.797	4.267	3.774	2.695	1.849	1.217	0.969	0.484
1.85V	9.875	8.429	7.005	4.639	2.848	2.104	1.867	1.331	0.916	0.598	0.474	0.233
	18.276	16.116	13.590	9.263	5.718	4.230	3.742	2.674	1.841	1.203	0.954	0.468

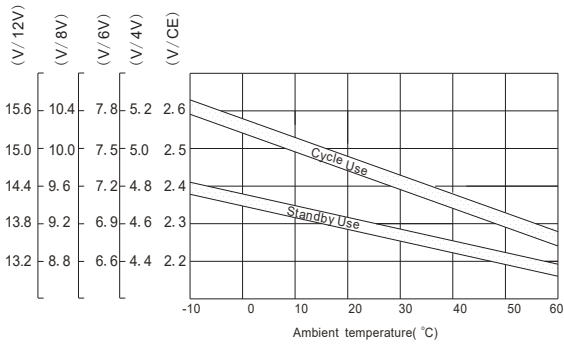
### Discharge characteristic Curve



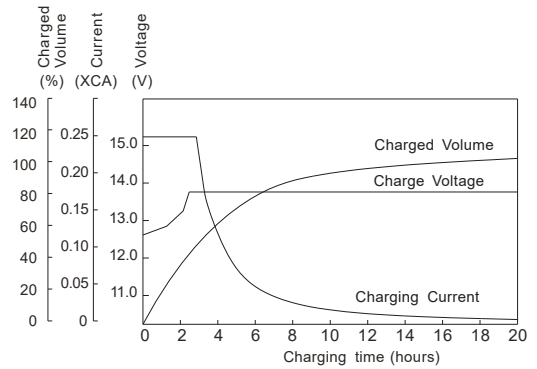
### Cycle service life in relation to depth of discharge



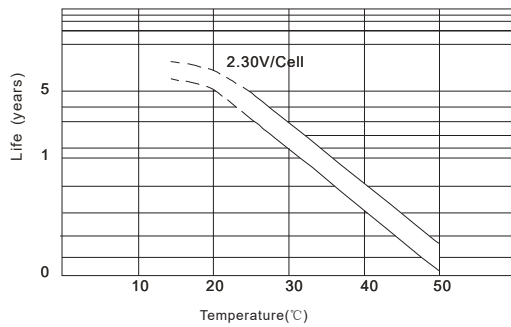
### Relationship between charging voltage and temperature



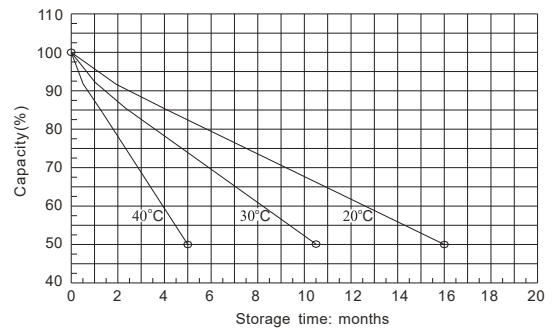
### Constant voltage charging characteristic (0.25CA, at 25 °C)



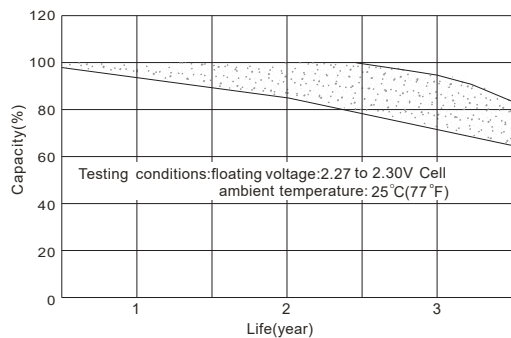
### Temperature effects on float life



### Self-discharge characteristic



### Life characteristics of standby use



### Charge characteristic Curve for standby use

