Power your life

RECHARGEABLE SEALED LEAD ACID BATTERY

Supplier of Energy

WP18-12SHR 12Volt 18Ah

Specifications

Nominal Voltage(V)				**12V**
Nominal Capacity				
20 hour rate	(0.9A	to	10.50V)	**18Ah**
10 hour rate	(1.71A	to	10.50V)	**17.1Ah**
5 hour rate	(3.06A	to	10.20V)	**15.3Ah**
1 C	(18A	to	9.60V)	**11.4Ah**
3 C	(54A	to	9.60V)	**7.2Ah**
Weight	Approx. **5.6kg(12.32Lbs.)**			
Internal Resistance (at 1KHz)	Approx. **10.5 mΩ**			
Maximum Discharge Current for				
5 seconds:				**270A**

Charging Methods at 25℃(77℉)

Cycle use:	
Charging Voltage	**14.4 to 15.0V**
Coefficient -5.0mV/℃/cell	
Maximum Charging Current：	**5.4A**
Standby use:	
Float Charging Voltage	**13.5 to 13.8V**
Coefficient -3.0mV/℃/cell	

Operating Temperature Range

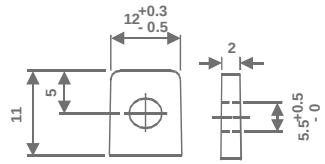
Charge	-15℃(5℉)	to	40℃(104℉)
Discharge	-15℃(5℉)	to	50℃(122℉)
Storage	-15℃(5℉)	to	40℃(104℉)

Charge Retention (shelf life) at 20℃(68℉)

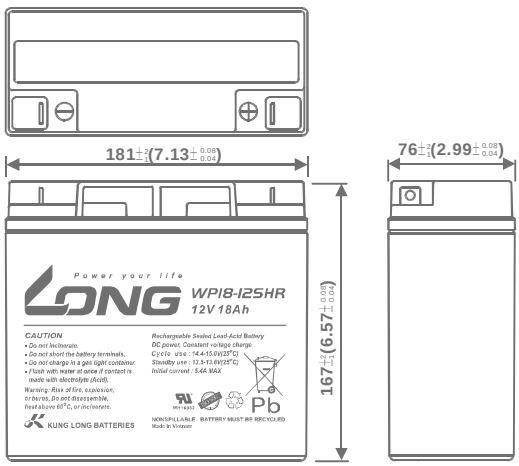
1 month	**92%**
3 month	**90%**
6 month	**80%**

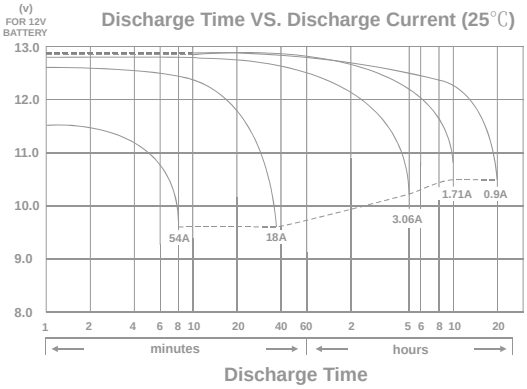
Case Material	**ABS UL94 HB**
Option: Flammability resistance of (UL94 V-0)	
Terminal	**F3**

Dimensions mm(inch)



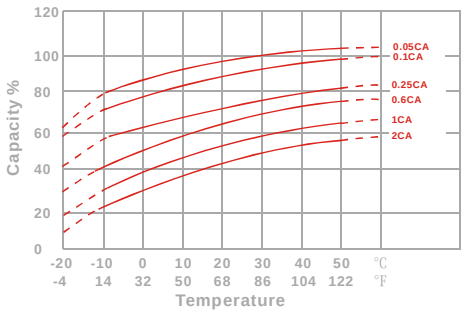
F3
(M5 Bolts)



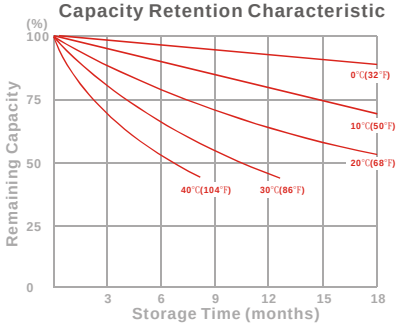


WP18-12SHR

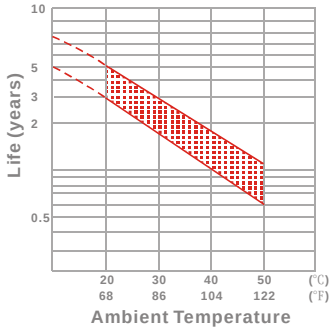
Effect of Temperature on Capacity 25℃(77℉)



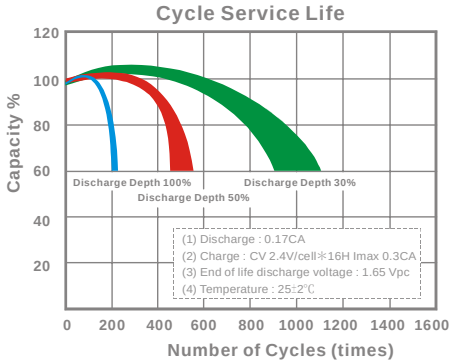
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	98.9	116	128	135	137	139	141
10	min	67.0	77.1	84.5	89.1	90.2	91.7	92.9
15	min	57.2	64.5	69.4	72.5	73.3	74.2	75.1
30	min	32.7	35.1	37.7	39.4	39.8	40.3	40.8
60	min	18.8	19.8	20.7	21.3	21.5	21.8	22.2
120	min	11.9	12.4	12.7	13.1	13.2	13.3	13.5
180	min	8.75	9.10	9.33	9.53	9.60	9.68	9.78
240	min	6.63	6.93	7.12	7.27	7.32	7.38	7.46
300	min	5.82	6.05	6.17	6.27	6.30	6.35	6.41
600	min	3.40	3.52	3.60	3.67	3.68	3.72	3.75
1200	min	1.77	1.83	1.88	1.92	1.93	1.95	1.96

- Discharge Rates in Amperes to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	62.6	68.3	71.9	75.1	76.4	77.8	80.2
10	min	38.6	41.8	44.3	46.5	47.4	48.4	50.1
15	min	31.9	34.6	36.3	37.7	38.2	38.8	39.7
30	min	17.4	18.7	19.8	20.7	21.0	21.4	21.9
60	min	9.74	10.3	10.7	11.0	11.1	11.3	11.5
120	min	5.98	6.23	6.39	6.53	6.58	6.64	6.72
180	min	4.35	4.52	4.64	4.73	4.76	4.80	4.85
240	min	3.43	3.52	3.58	3.62	3.63	3.65	3.68
300	min	2.96	3.02	3.07	3.11	3.12	3.14	3.16
600	min	1.73	1.77	1.80	1.82	1.83	1.84	1.85
1200	min	0.893	0.914	0.931	0.946	0.952	0.959	0.962

All data on the spec. sheet is an average value:
The tolerance range : X<6min(+15%~-15%), 6min≦X<10min(+12%~-12%),10min ≦X < 60min(+8% ~-8%), X≧60min(+5%~-5%)

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