POWER SOLID

The Crown of Power Solution

High Rate Battery

PSH-12410-W

12V , 115Ah

General Features

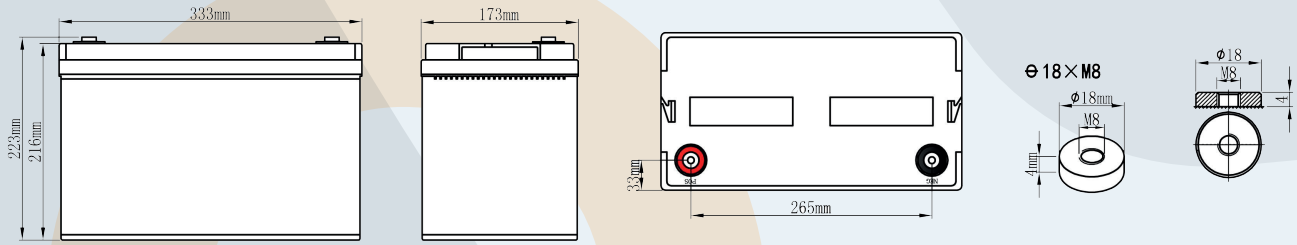
- Maintenance free(no water adding required)
- No free acid(Non-spillable battery)
- Lead calcium Tin Aluminum alloy high energy, prevent corrosion
- Especially designed for high rate load discharge applications
- HR series offers 30% more power output than the standard range.
- Wide operating temperature range from 0ºC~40ºC

Application

- UPS /EPS(High rate)
- Starting devices
- Electric tools
- Electric wheel chair
- Emergengy power supply
- High power backup supply

Dimensions

Dimensions:(mm) 333(L)×173(W)×216(H)×223(TH)



Battery Specifications

Nominal Voltage(V)	12（6 cells per unit）
Nominal Capacity	410W@ 15min-rate to1.67V /cell @25°C(77°F)
Nominal Capacity (10HR)	115AH
Weight±2%	Approx 31.5Kg(69.45lbs)
Internal Resistance(fully charged @ 25°C)	Approx: 4.00mΩ
Max. Discharge Current	1000A(5ses)
Designed floating charging service life	12 years (25ºC)
Operation Temperature	Discharge: -15°C ~ 50°C Charge: 0°C ~ 40°C Storage: -15°C ~ 40°C
Optimum Used Temperature,Optimal run	15°C ~ 25°C
Maximum Charge current	20.0A
Float Charge Voltage (20°C ~25°C)	13.6~13.8V (Temperature compensation -18mV/°C)
Equalize Charge Voltage(20°C ~25°C)	14.4~14.7V (Temperature compensation -30mV/°C)
Storage Characteristics	Can be stored for up to 6 months at 25 ,Please charge batteries before using.
Container Material	ABS, (UL94-HB), Flammability resistance of UL94-V0 can be available upon request.

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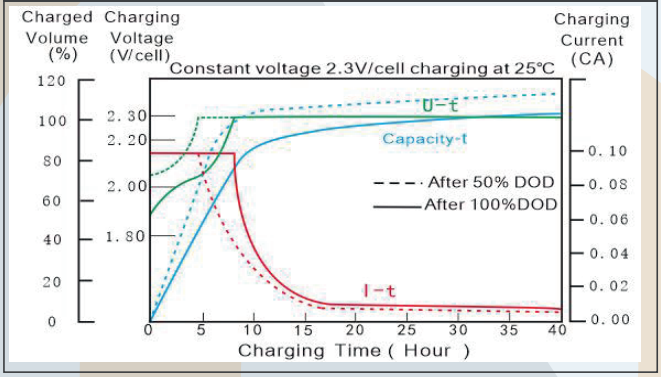
General Features

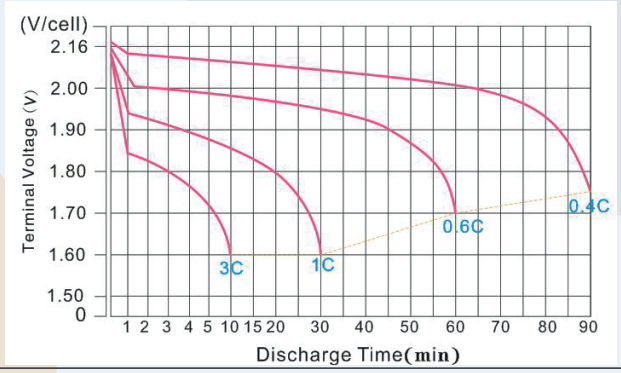
F.V/Time	5Min	10Min	15Min	20Min	30Min	60Min	90Min
Constant Current Discharge Data Sheet (Amperes at 25ºC)							
1.60	340.9	254.7	204.0	164.4	115.0	73.0	50.5
1.67	324.4	245.5	197.8	159.7	112.6	71.4	49.5
1.70	306.3	231.9	189.7	153.4	108.9	69.0	47.9
1.75	289.1	221.4	182.6	148.3	105.6	67.7	46.0
1.80	271.8	210.7	175.3	143.2	102.3	66.0	45.6
Constant Power Discharge Data Sheet (Watt at 25ºC)							
1.60	658.3	501.9	423.3	331.3	232.8	146.4	92.1
1.67	633.9	485.3	410.0	324.7	229.6	145.3	91.4
1.70	605.1	466.5	396.7	316.9	225.4	143.1	90.3
1.75	579.5	448.7	382.3	310.3	222.2	142.1	89.4
1.80	551.9	432.1	369.0	303.6	219.1	141.1	88.5

PerformanceCharacteristics

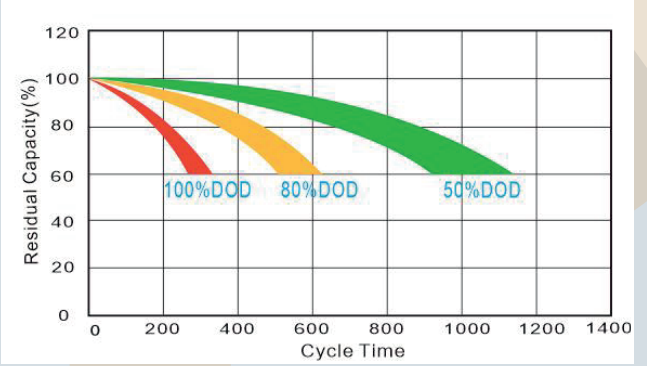
Constant Voltage Charge Characteristics



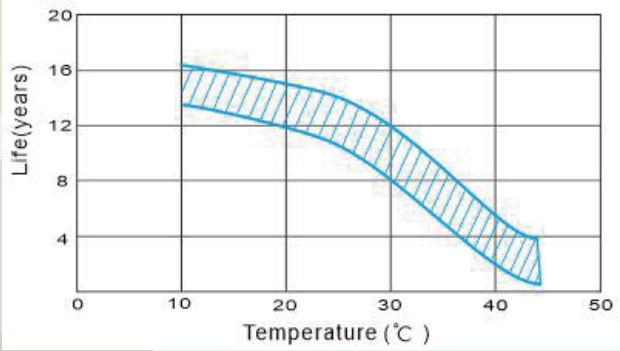
Discharge Characteristic (25ºC/77ºF)



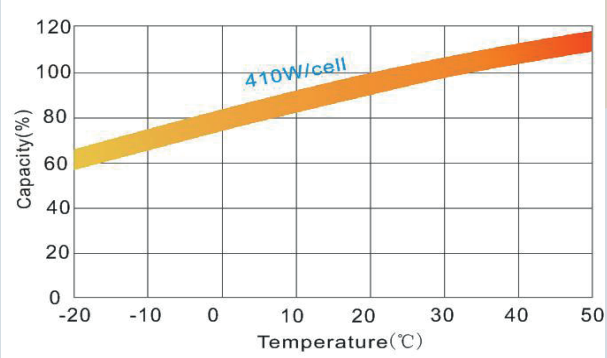
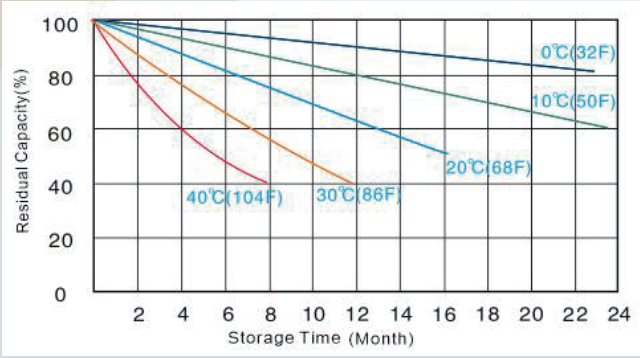
Cycle Life in Relation to Depth of Discharge



Temperature vs Float Life



Capacity Curve At Different Temperature



Storage Characteristics