



HP Series

HP(High-Rate) Series of valve regulated lead acid (VRLA) batteries have been developed with high efficiency active materials to stimulate inside the battery with higher power output when the battery is discharged to a extent level of discharging. Along with high-density structure design for relatively smaller Inner resistance which will significantly improve the performance for high rate discharging when high power output service is needed.

Application

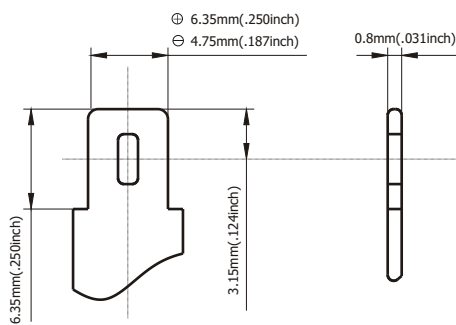
- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- Toys
- UPS
- Emergency Power System

General Features

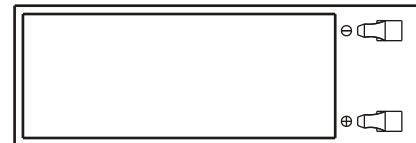
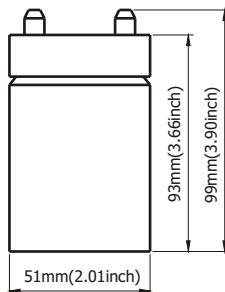
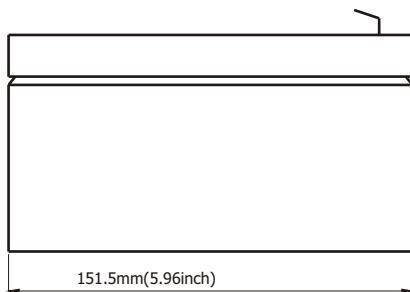
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

Construction

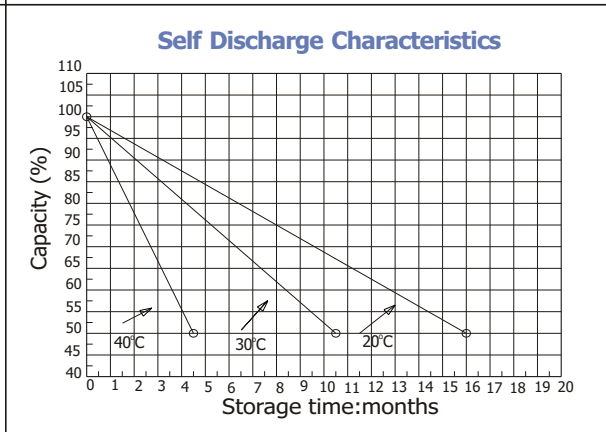
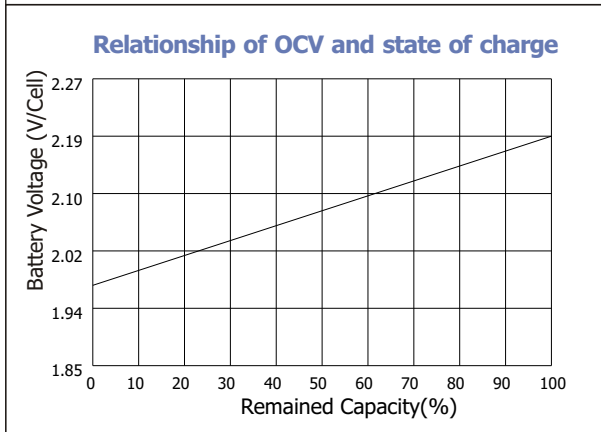
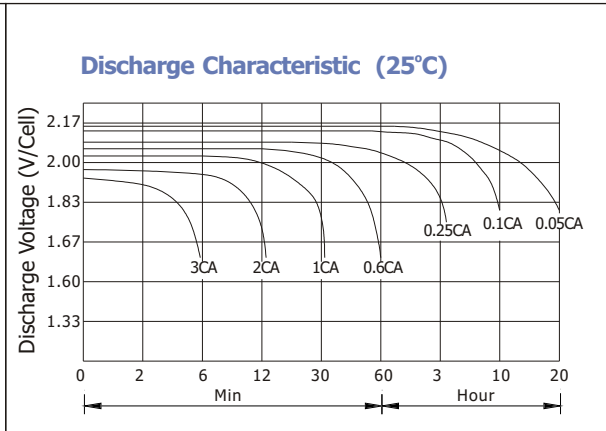
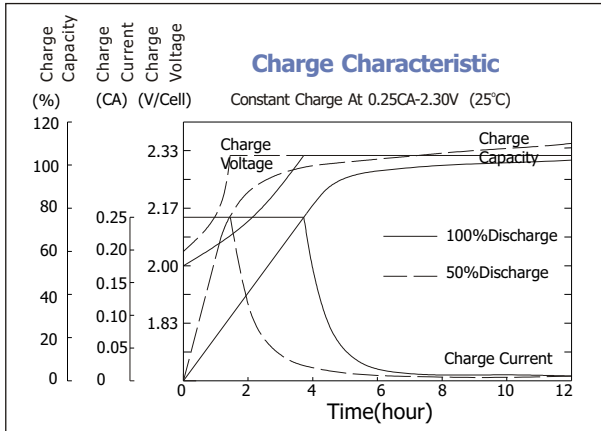
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFibre glass
- ElectrolyteSulfuric acid



Terminal Dimensions



Battery Model	HP12-6.5 (24W/cell to 1.67V, 15min)			
Designed Floating Life	5 Years			
Capacity(25°C)	20HR(0.26A,1.75V)	10HR(0.5A,1.75V)	5HR(0.9A,1.75V)	1HR(3.8A,1.75V)
	5.2AH	5AH	4.5AH	43.8AH
Dimensions	Length	Width	Height	Total Height
	151.5mm(5.96inch)	51mm(2.01inch)	93mm(3.66inch)	99mm(3.90inch)
Approx. Weight	1.97Kg (4.34 lbs)			
Internal Resistance	Full charged at 25°C: 0.025 Ω			
Self Discharge	3% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-15V(-30mV/ °C), max. Current: 1.5A		13.6-13.8V(-20mV/ °C)	



Constant current discharge ratings-amperes at 25°C - (Valores medios después de 5 ciclos)

F. V/Time	5MIN	10MIN	15MIN	30MIN	1H	3H	5H	10H	20H
1.60V	28.4	17.6	13.3	8.12	4.56	1.72	1.05	0.57	0.29
1.67V	26.6	16.7	12.8	7.76	4.21	1.65	1.03	0.51	0.28
1.70V	24.4	16.1	12.5	7.06	4.08	1.54	1.00	0.50	0.27
1.75V	23.9	15.6	12.1	6.71	3.89	1.49	0.98	0.50	0.26
1.80V	21.4	14.9	11.0	6.21	3.64	1.43	0.92	0.49	0.25
1.85V	18.9	14.2	9.9	5.72	3.39	1.38	0.87	0.48	0.24

Constant power discharge ratings-watts at 25°C - (Valores medios después de 5 ciclos)

F. V/Time	5MIN	10MIN	15MIN	30MIN	1H	3H	5H	10H	20H
1.60V	49.8	31.9	24.3	14.6	7.70	3.04	1.77	1.05	0.58
1.67V	48.0	31.1	24.0	14.3	7.65	2.95	1.76	1.05	0.55
1.70V	45.2	30.8	23.8	13.4	7.50	2.82	1.74	1.04	0.55
1.75V	45.5	30.7	23.6	13.0	7.38	2.75	1.73	1.02	0.53
1.80V	41.6	30.2	21.9	12.4	6.95	2.67	1.67	1.01	0.52
1.85V	37.8	28.7	19.8	11.6	6.54	2.59	1.62	1.00	0.50

