UPS SERIES 9

HV Series battery

(HV) Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. HV Series Batteries are high performance batteries with 5 years floating design life at 25°C,

Meet with IEC, BS, JIS and Eurobat standard, CE approved.

- * Emergency Power System
- * Communication equipment
- Telecommunication systems
- * Uninterruptible power supplies
- * Electric toy car and wheelchairs, etc.

General Features

- * Heavy Duty Grid
- * Mechanized assembly
- Non-spillable construction
- High Reliability and Stability
- Sealed and Maintenance-free
- * Long Life and low self-discharge design

- * Power tools
- * Alarm system
- * Marine équipment
- * Medical equipment
- * Fire and Security System

Construction

- Positive ····· Lead dioxide
- * Electrolyte ···· Sulfuric acid
- * Separator ···· Fiber glass

Specification

Battery Model	Nominal V	′oltage	12V (6 cells per unit)						
Dallery Model	Rated capacity (2	20 Hour rate)	9.0Ah						
Dimension	Length	Width	Height	Total Height					
Dimension	151mm (5.94 inches)	65mm (2.56 inches)	94mm (3.70 inches)	100mm (3.94 inches)					
Approx Weight	2.35kg(5.18 lbs) ± 3%								
Internal Resistance	Full charged at 25 $^\circ C$ (77 $^\circ F$):Approx 18.5m Ω								
Maximum Charge Current	2.70A								
Max.discharge current	135A (5Sec.)								
Short-circuit current	360A								
Operating Temperature	Nominal Operating Temperature	Discharge	Charge	Storage					
Range	25℃(77 ℉)	- 15℃~ 50℃(5° F ~122 °F)	-15℃~40℃(5°F~104°F)	- 15℃~ 40℃(5° F ~104 °F)					
Capacity @ 25°C	20 hour rate(0.45A,10.5V)	10 hour rate(0.83A,10.5V)	5 hour rate(1.48A,10.5V)	1 hour rate(5.77A,9.6V)					
(77°F)	9.00Ah	8.30Ah	7.4Ah	5.80Ah					
Capacity affected by	40 ℃ (104℉)	25 ℃ (77°F)	0℃ (32°F)	-15℃ (5°F)					
Temp.(20HR)	102%	100%	85%	65%					
Charge method	Float Chargin	g Voltage	Equalization Charging Voltage						
	13.5 ~ 13.8 VDC/Ur	nit at 25℃(77℉)	14.4 ~ 15.0 VDC/Unit at 25℃(77°F)						

Outer dimension (mm)

F2 Terminal 151±1.5 6.35 5 3.4 94±1 100±1 7.85 65± Unit:mm 69 0.8

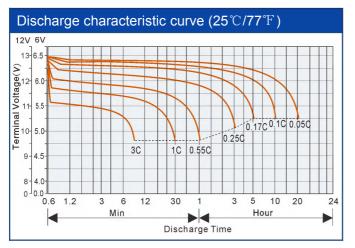
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25 $^\circ \mathrm{C}$ (77 $^\circ \mathrm{F}$)													
F.V/Time	е	5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell ⊢	А	29.0	19.7	15.1	12.4	9.10	5.40	3.10	2.20	1.46	1.00	0.81	0.440
	W	55.0	37.5	29.0	23.9	17.80	10.60	6.11	4.35	2.89	1.98	1.63	0.891
1.80V/cell	А	30.5	20.6	15.7	12.8	9.30	5.48	3.14	2.22	1.46	1.01	0.82	0.447
	W	57.5	39.0	30.3	24.6	18.20	10.75	6.17	4.39	2.92	2.00	1.65	0.895
1.75V/cell	А	32.0	21.5	16.3	13.1	9.50	5.56	3.18	2.25	1.48	1.02	0.83	0.450
	W	60.1	40.5	31.4	25.2	18.50	10.88	6.22	4.43	2.94	2.02	1.66	0.898
1.70V/cell	А	33.5	22.2	16.8	13.4	9.70	5.63	3.21	2.28	1.50	1.03	0.84	0.453
	W	62.2	41.7	32.3	25.6	18.80	10.98	6.27	4.47	2.96	2.03	1.67	0.901
1.67V/cell	А	34.5	22.8	17.2	13.6	9.80	5.68	3.24	2.30	1.51	1.04	0.85	0.455
	W	63.5	42.7	33.0	25.9	18.90	11.05	6.30	4.49	2.97	2.04	1.68	0.904
1.60V/cell	А	36.5	23.5	18.0	13.9	9.90	5.77	3.28	2.32	1.53	1.05	0.86	0.460
	W	66.5	44.0	34.0	26.5	19.00	11.17	6.36	4.52	2.99	2.06	1.69	0.910

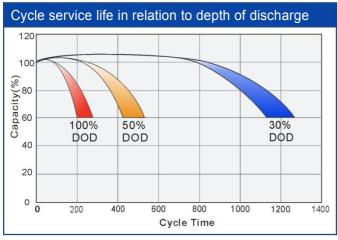


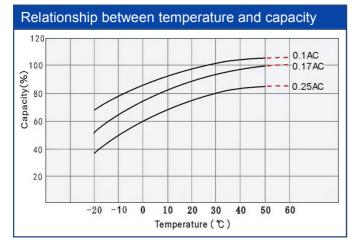
Terminal Type

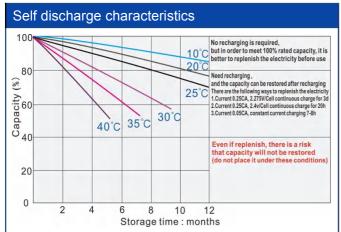
- * Negative ····· Lead * Safety Valve ···· EPDR
- * Terminal ····· Copper
- * Container ··· · ABS(UL94-HB)/Flame Retardant ABS (UL94-V0)

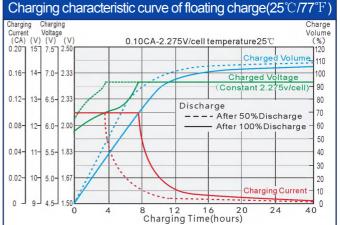
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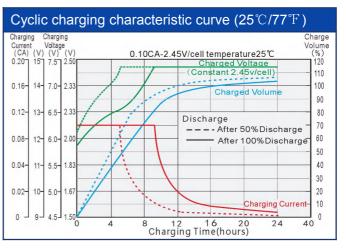




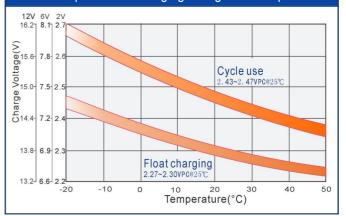




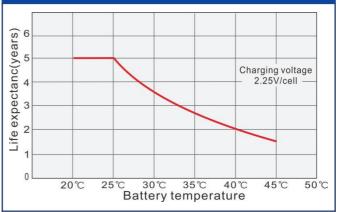




Relationship between charging voltage and temperature







HV9-12 (12V9Ah)