





# **Specification**

Cells Per Unit	6				
Voltage Per Unit	12				
Capacity	36W @ 15min- rate to 1.67V per cell @25				
Weight	Approx. 2.5 Kg (Tolerance ± 5.0%)				
Internal Resistance	Approx. 22m Ω				
Terminal	F2				
Max. Discharge Current	90A (5 sec)				
Short Circuit Current	3450A				
Design Life	Could Reach 8 years				
Max. Charging Current	2.7A				
Reference Capacity	C10 8.5AH C20 9.0AH				
Standby Use Voltage	13.7 V ~ 13.9 V @ 25°C Temperature Compensation: -3mV/ / Cell				
Equalization Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell				
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C				
Normal Operating Temperature Range	25°C±5°C				
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.				
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.				



HR (High Rate) series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 8 years design life in float service. By using strong grids, thick plate and specially designed active material. It is with lower I.R, lower self discharge rate, high power, and longer service life. The HR series battery offers 30% more power output than the standard series. It is suitable for high power standby used, such as datacenter, UPS, EPS etc.



# **Dimensions**









6.35



### Constan Current Discharge Characteristics: A (25°C)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	46.94	41.26	32.97	28.26	20.85	16.39	11.68	6.548	4.642
1.67V	42.60	37.44	30.15	26.05	19.50	15.47	11.06	6.241	4.443
1.70V	40.76	35.83	28.95	25.11	18.90	15.06	10.79	6.105	4.360
1.75V	37.75	33.19	26.97	23.53	17.85	14.30	10.34	5.900	4.228
1.80V	34.58	30.40	24.93	21.95	16.95	13.63	9.889	5.679	4.078
1.85V	29.57	25.99	21.24	18.63	14.54	11.84	8.745	5.133	3730

#### Constan Power Discharge Characteristics: WPC (25°C)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	84.36	74.16	59.46	51.16	38.10	30.17	21.58	12.28	8.787
1.67V	77.51	68.13	55.11	47.84	36.00	28.79	20.78	11.82	8.488
1.70V	74.84	65.79	53.34	46.42	35.25	28.18	20.29	11.63	8.356
1.75V	70.00	61.53	50.25	44.05	33.60	27.11	19.65	11.31	8.140
1.80V	64.98	57.12	47.01	41.53	32.10	26.04	19.00	10.98	7.925
1.85V	56.46	49.63	40.62	35.68	27.90	22.82	16.91	9.993	7.278

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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**Discharge Characteristics Curve** 





**Temperature Effects On Capacity** 







**Charge Characteristic Curve For Standby Use** 



Relationship Between Charging Voltage And Temperature



Relationship of OCV And State Of Charge (20)







(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain the lates information

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