



# HR2-2500W(2V2500W)

## Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	2500W@15min-rate to 1.67V @25°C
Weight	Approx. 51.0Kg (Tolerance±3.0%)
Internal Resistance	Approx. 0.48 mΩ
Terminal	F10(M8)
Max. Discharge Current	5000A (5 sec)
Short Circuit Current	6850A
Design Life	20 years
Max. Charging Current	200.0 A
Reference Capacity	C10 1000.0AH C20 1050.0AH
Floating Voltage	2.25 V~2.27 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Equalizing Voltage	2.35 V~2.40 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. The cover is not configured by default.



HR ( High Rate ) series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 20 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.



ISO 9001



ISO 14001



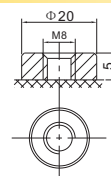
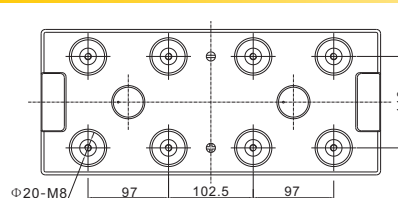
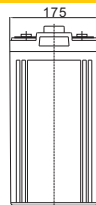
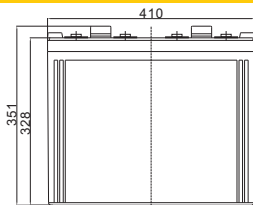
OHSAS 18001



MH 28539



## Dimensions



F10 TERMINAL

Length	410±2mm (16.1 inches)
Width	175±2mm (6.89 inches)
Height	330±2mm (12.9 inches)
Total Height	353±2mm (13.9 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

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

F.V/Time	10MIN	15MIN	20MIN	25MIN	30MIN	45MIN	60MIN	90MIN	120MIN
1.60V	1870.6	1585.3	1317.8	1126.3	996.8	757.6	617.1	467.7	380.0
1.65V	1723.0	1485.3	1265.1	1081.3	956.9	729.5	595.9	452.3	367.9
1.67V	1639.6	1438.2	1237.2	1057.4	935.8	715.6	586.3	444.9	361.8
1.70V	1558.1	1391.2	1209.3	1033.6	914.7	701.7	576.6	437.5	355.8
1.75V	1424.0	1294.6	1155.8	987.9	874.2	673.4	555.5	421.8	343.3
1.80V	1255.1	1195.4	1104.7	944.2	835.6	645.7	534.2	406.2	331.1

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

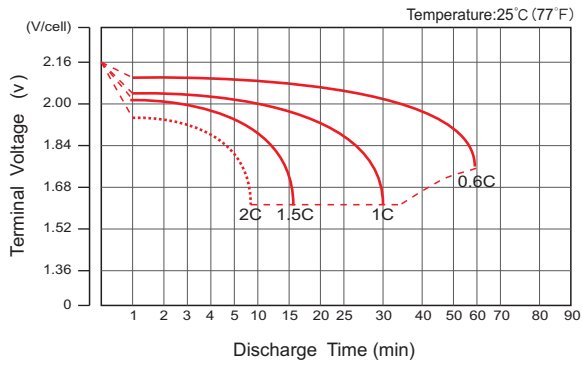
F.V/Time	10MIN	15MIN	20MIN	25MIN	30MIN	45MIN	60MIN	90MIN	120MIN
1.60V	3173.1	2696.0	2275.1	1974.9	1761.1	1362.3	1128.1	858.8	700.6
1.65V	2965.9	2563.3	2207.1	1915.9	1708.5	1322.4	1095.7	834.8	681.6
1.67V	2842.8	2500.0	2168.9	1882.8	1679.0	1302.4	1081.2	823.5	672.2
1.70V	2722.2	2436.7	2130.8	1849.6	1649.4	1282.3	1066.7	812.2	662.8
1.75V	2524.1	2300.5	2057.5	1786.0	1592.7	1240.7	1033.9	787.4	642.6
1.80V	2256.2	2154.3	1986.4	1724.3	1537.7	1199.0	1000.1	762.3	622.7

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

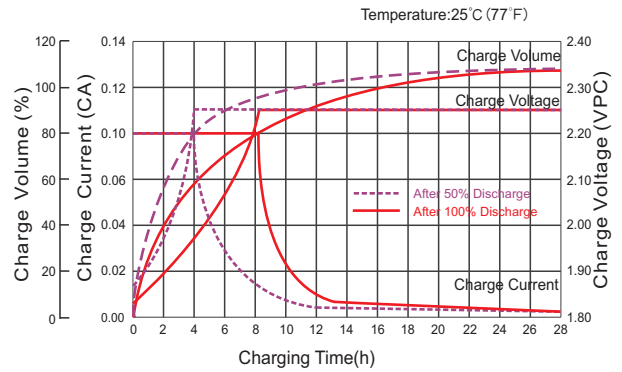
# HR2-2500W(2V2500W)



## Discharge Characteristics Curve



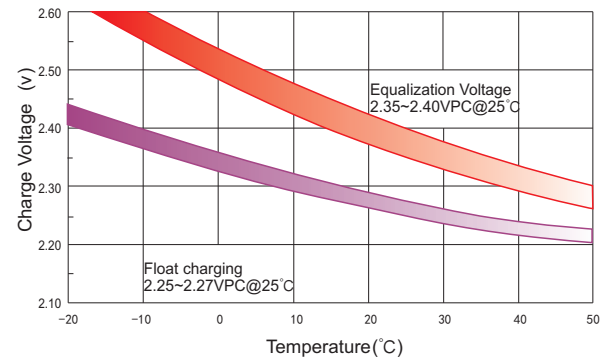
## Charge Characteristic Curve For Floating Use



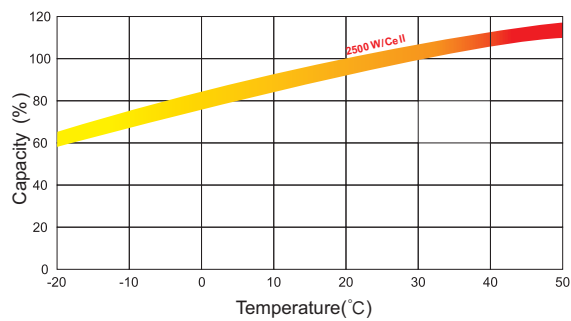
## Storage Characteristics



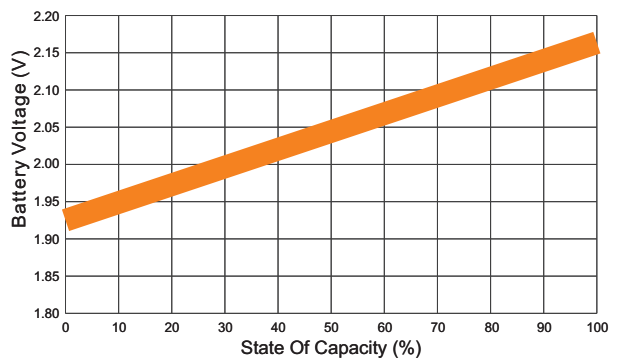
## Relationship Between Charging Voltage And Temperature



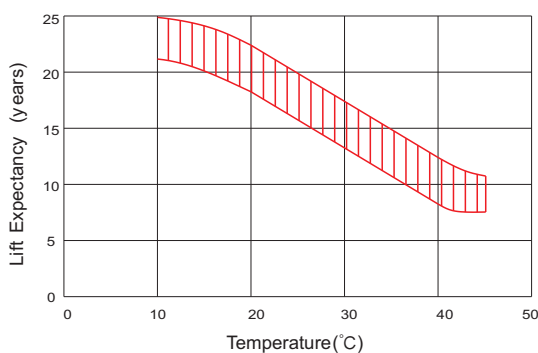
## Temperature Effects On Capacity



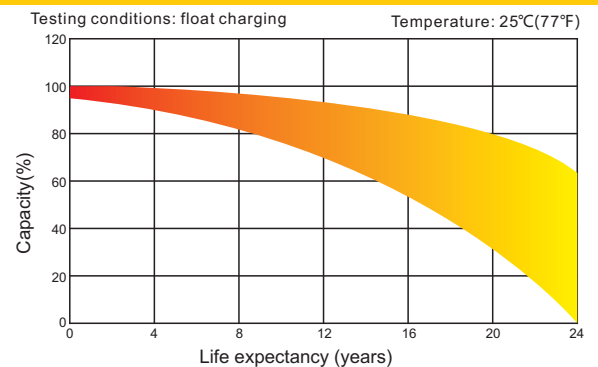
## Relationship of OCV And State of Charge(20°C)



## Effect Of Temperature On Long Term Life



## Life Characteristics Of Standby Use



(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.