



HR12-280WA(12V280W)

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	280W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 24.5 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 6.0 mΩ
Terminal	F11(M6)
Max. Discharge Current	750A (5 sec)
Short Circuit Current	1850A
Design Life	15 years
Max. Charging Current	22.5 A
Reference Capacity	C10 70.8AH C20 75.0AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/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 15 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



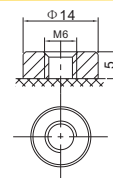
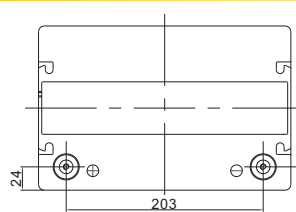
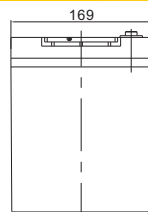
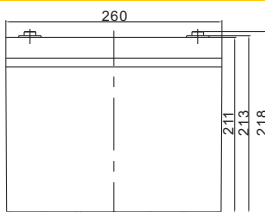
OHSAS 18001



MH 28539



Dimensions



F11 TERMINAL

Length	260±2mm (10.2 inches)
Width	169±2mm (6.65 inches)
Height	211±2mm (8.31 inches)
Total Height	216±2mm (8.50 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	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	227.9	199.7	184.8	154.8	126.1	92.91	53.77	38.59
1.67V	206.8	183.1	170.8	144.4	118.5	87.92	51.29	37.02
1.70V	198.0	176.0	164.7	140.0	115.2	85.80	50.27	36.30
1.75V	182.8	164.0	154.4	132.4	109.4	82.17	48.53	35.16
1.80V	167.5	151.9	144.1	125.3	104.3	78.69	46.78	34.01
1.85V	143.8	129.4	122.1	107.7	90.49	69.61	42.26	31.01

Constant Power Discharge Characteristics : WPC (25°C)

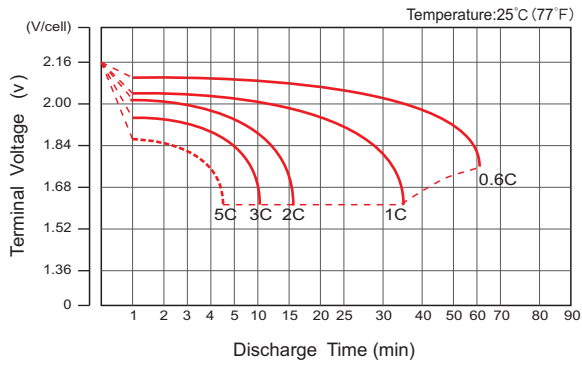
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	418.8	371.9	347.6	295.1	242.3	180.5	101.0	73.0
1.67V	389.8	348.9	328.0	280.0	231.2	173.1	97.2	70.6
1.70V	377.0	338.5	318.9	273.4	226.2	169.6	95.6	69.6
1.75V	353.8	319.8	302.9	261.6	217.2	164.0	93.0	67.7
1.80V	329.3	300.2	286.0	250.0	209.0	158.3	90.2	65.9
1.85V	286.8	259.3	245.6	217.3	183.1	141.2	82.0	60.6

(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



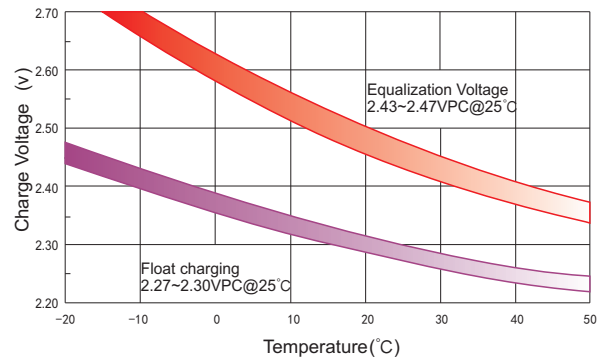
Charge Characteristic Curve For Standby Use



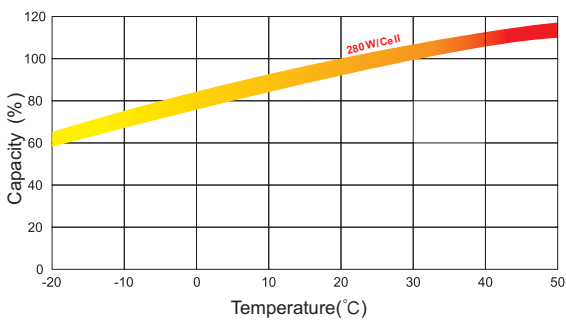
Storage Characteristics



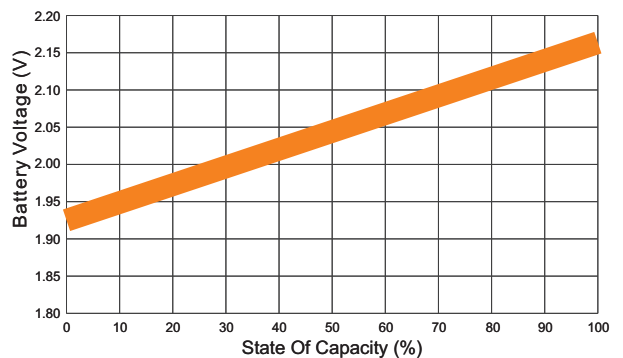
Relationship Between Charging Voltage And Temperature



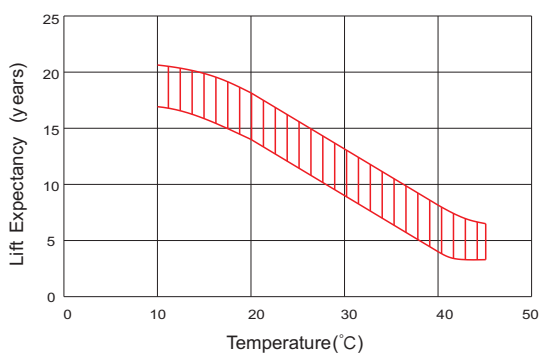
Temperature Effects On Capacity



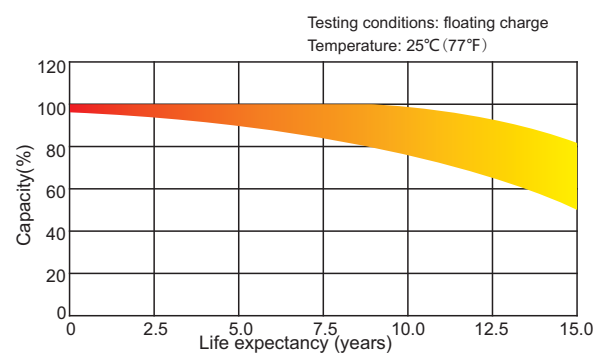
Relationship of OCV And State of Charge(20°C)



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.