



HR12-580WL

Specification

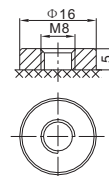
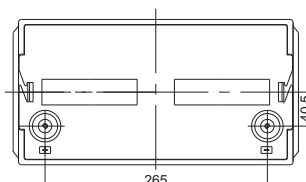
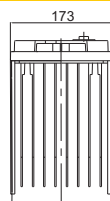
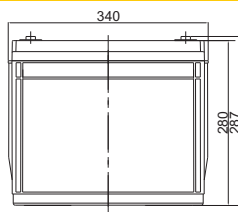
Cells Per Unit	6
Voltage Per Unit	12
Capacity	580W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 47.0 Kg (Tolerance $\pm 1.5\%$)
Internal Resistance	Approx. 3.8 m Ω
Terminal	F12(M8)
Max. Discharge Current	1550A (5 sec)
Short Circuit Current	3150A
Design Life	Could Reach 15 years
Recommended Maximum Charging Current	46.5 A
Reference Capacity	C10 146.2AH C20 155.0AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C
Cycle Use Voltage	14.6 V~14.8 V @ 25°C
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C $\pm 5^\circ\text{C}$
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 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 and specially designed active material the HR series is with lower I.R, lower self discharge rate, high power, and longer service life performance. Generally the HR series offers 30% more power output than the standard range. Suitable for high power standby and cycling situation, such as UPS, datacenter, electric tools et al.



Dimensions



F12 Terminal

Length	340 ± 2 mm (13.4 inches)
Width	173 ± 2 mm (6.81 inches)
Height	280 ± 2 mm (11.0 inches)
Total Height	287 ± 2 mm (11.3 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	541.1	463.3	416.7	331.1	265.9	194.9	112.1	83.0
1.67V	500.7	434.7	391.0	313.8	248.1	185.8	106.8	79.0
1.70V	479.9	419.4	376.9	304.1	238.6	180.6	103.7	76.6
1.75V	453.2	398.4	353.9	289.9	232.1	175.5	102.0	74.9
1.80V	426.3	377.4	330.8	275.4	225.2	170.1	100.0	73.1
1.85V	397.8	354.9	306.6	259.7	217.3	163.8	97.6	70.9

Constant Power Discharge Characteristics : WPC (25°C)

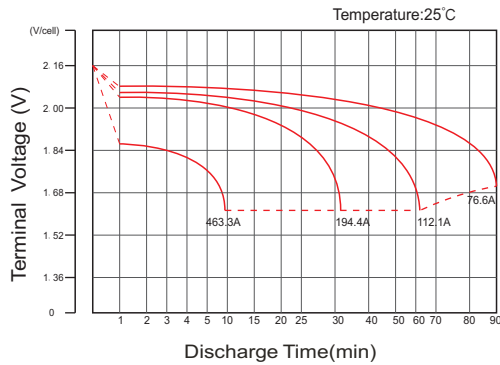
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	965	838	759	606	489	359	207	154
1.67V	902	794	719	580	460	346	199	148
1.70V	874	775	701	569	448	340	196	145
1.75V	836	746	667	549	441	334	195	144
1.80V	798	717	632	529	434	329	194	142
1.85V	760	688	598	509	428	323	193	141

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

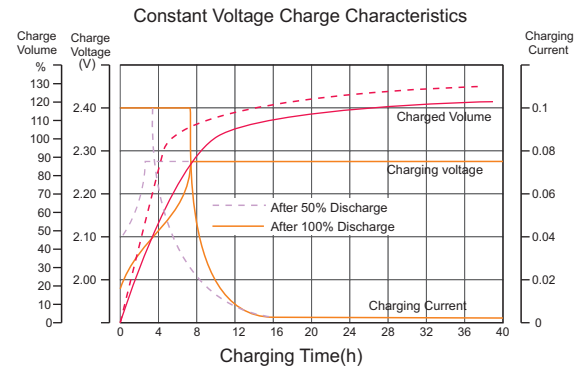
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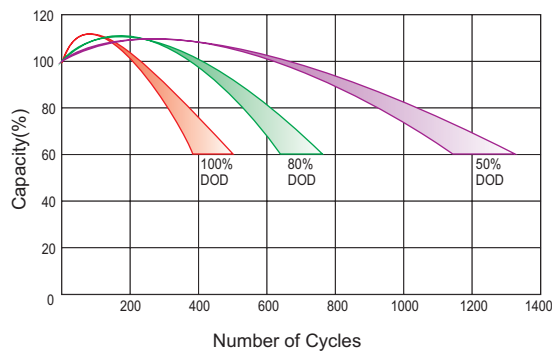
Discharge Characteristics Curve



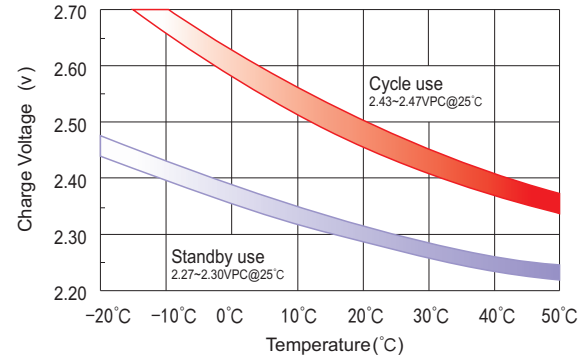
Charge Characteristic Curve For Standby Use



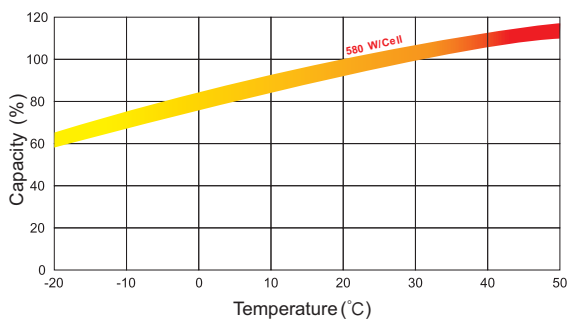
Cycle Life In Relation To Depth Of Discharge



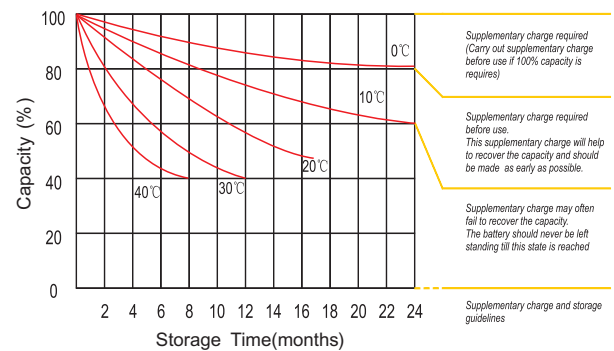
Relationship Between Charging Voltage And Temperature



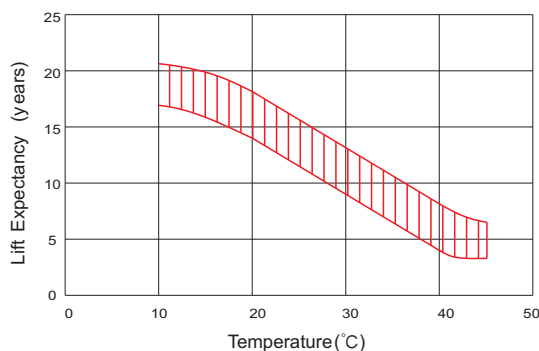
Temperature Effects On Capacity



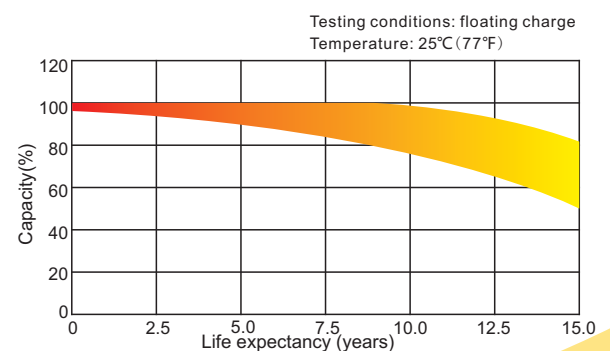
Storage Characteristics



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.

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