



# HR6-630W



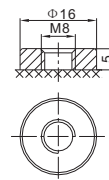
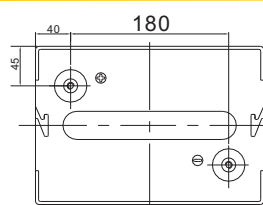
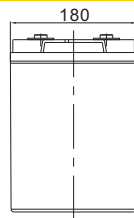
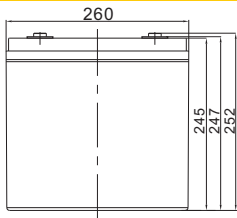
## Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	630W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 26.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 2.0 mΩ
Terminal	F12(M8)
Max. Discharge Current	1800A (5 sec)
Short Circuit Current	3600A
Design Life	Could Reach 12 years
Recommended Maximum Charging Current	54.0 A
Reference Capacity	C10 170AH C20 180AH
Standby Use Voltage	6.80 V~6.90 V @ 25°C
Cycle Use Voltage	7.30 V~7.40 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 ± 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.
Constainer 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 12 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	260±2mm (10.2 inches)
Width	180±2mm (7.09 inches)
Height	245±2mm (9.65 inches)
Total Height	252±2mm (9.92 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	636.3	529.0	466.7	360.8	295.0	224.7	137.3	102.7
1.67V	588.8	496.3	437.9	342.0	275.2	214.2	130.8	97.8
1.70V	564.3	478.8	422.1	331.5	264.7	208.2	127.1	94.9
1.75V	533.0	454.9	396.4	315.9	257.5	202.3	125.0	92.8
1.80V	501.3	430.9	370.4	300.1	249.8	196.1	122.5	90.5
1.85V	467.8	405.2	343.4	283.0	241.1	188.9	119.6	87.8

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

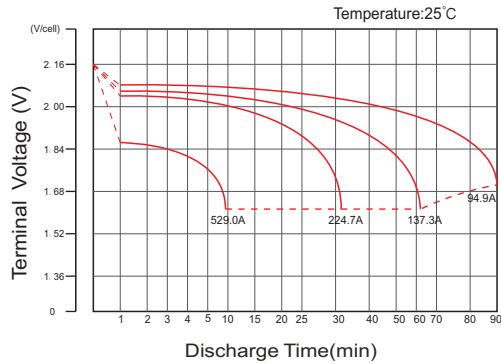
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	1135	957	850	661	542	414	254	191
1.67V	1060	907	805	632	511	399	244	183
1.70V	1028	885	785	620	497	392	240	180
1.75V	983	852	746	599	490	386	239	178
1.80V	938	819	708	577	482	379	238	176
1.85V	893	785	670	555	475	373	237	175

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

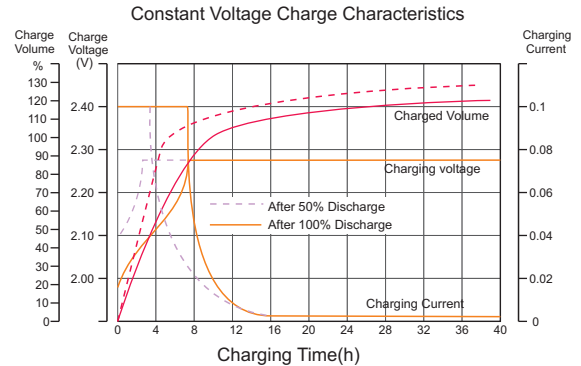
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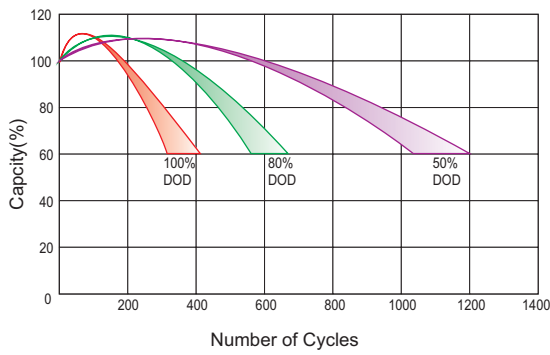
## Discharge Characteristics Curve



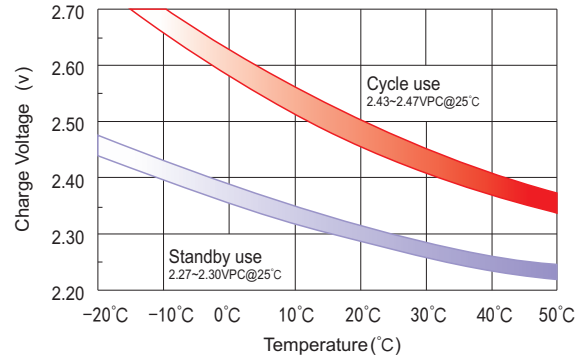
## Charge Characteristic Curve For Standby Use



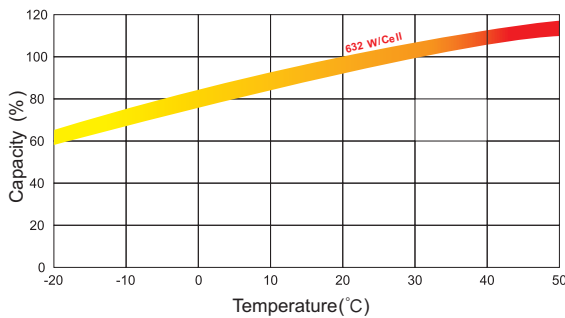
## Cycle Life In Relation To Depth Of Discharge



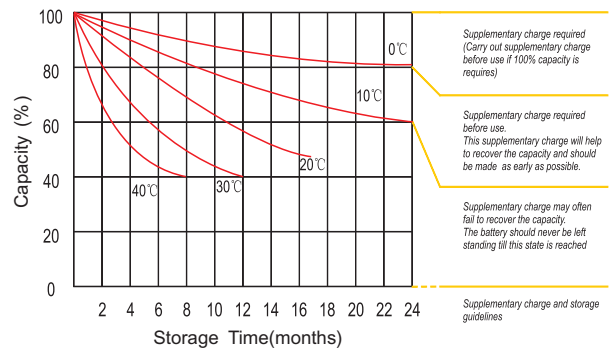
## Relationship Between Charging Voltage And Temperature



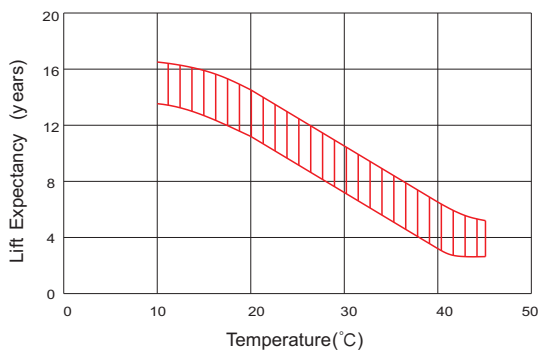
## Temperature Effects On Capacity



## Storage Characteristics



## Effect Of Temperature On Long Term Life



## Life Characteristics Of Standby Use

