



# HR6-850W

## Specification

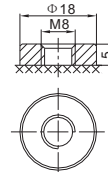
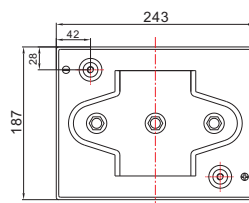
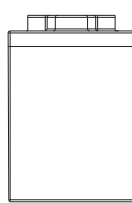
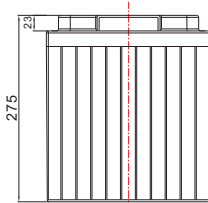
Cells Per Unit	3
Voltage Per Unit	6
Capacity	850W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 33.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 1.7 mΩ
Terminal	F14(M8)
Max. Discharge Current	2250A (5 sec)
Short Circuit Current	3850A
Design Life	Could Reach 12 years
Recommended Maximum Charging Current	67.5 A
Reference Capacity	C10 210AH C20 225AH
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



F14 Terminal

Length	243±2mm (9.57 inches)
Width	187±2mm (7.36 inches)
Height	275±2mm (10.8 inches)
Total Height	275±2mm (10.8 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	855.0	710.9	627.2	484.8	396.5	302.0	184.5	138.1
1.67V	791.2	666.8	588.5	459.6	369.8	287.9	175.8	131.4
1.70V	758.3	643.4	567.2	445.4	355.7	279.7	170.7	127.5
1.75V	716.2	611.2	532.6	424.5	346.0	271.8	167.9	124.6
1.80V	673.6	579.0	497.8	403.3	335.7	263.5	164.6	121.6
1.85V	628.6	544.5	461.5	380.3	324.0	253.8	160.7	118.0

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

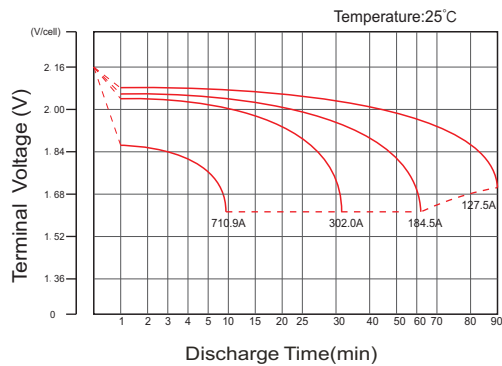
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	1525	1286	1142	888	729	556	341	256
1.67V	1425	1218	1082	850	686	535	328	246
1.70V	1382	1190	1055	833	668	526	323	242
1.75V	1321	1145	1003	804	658	518	321	239
1.80V	1261	1100	951	775	648	509	320	237
1.85V	1200	1055	900	746	638	501	318	235

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

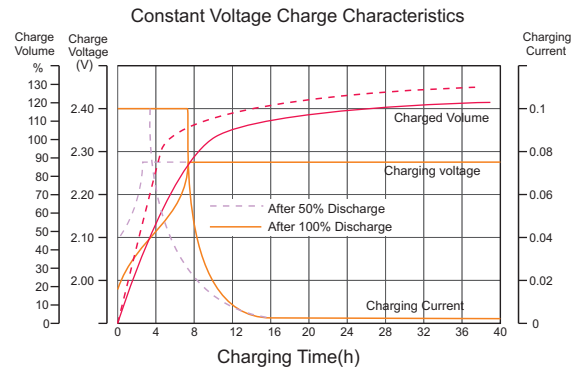
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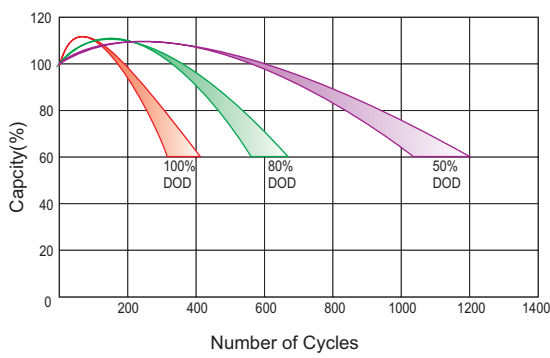
## Discharge Characteristics Curve



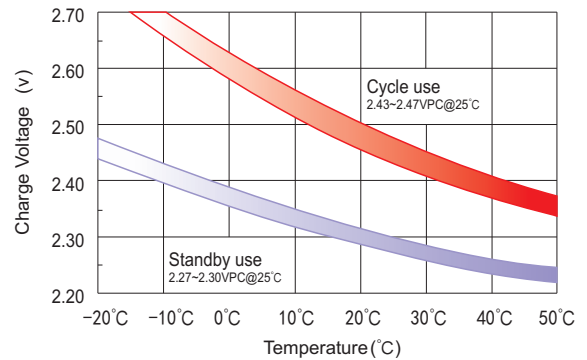
## Charge Characteristic Curve For Standby Use



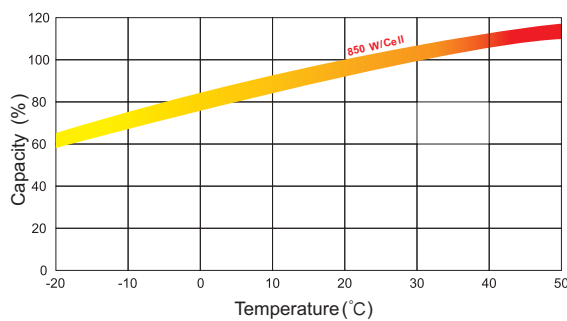
## Cycle Life In Relation To Depth Of Discharge



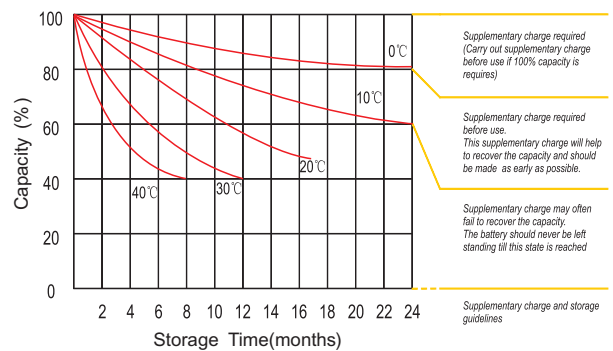
## Relationship Between Charging Voltage And Temperature



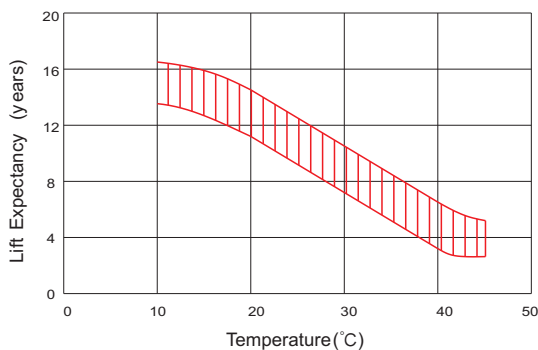
## Temperature Effects On Capacity



## Storage Characteristics



## Effect Of Temperature On Long Term Life



## Life Characteristics Of Standby Use

