



HR12-570WSL

Specification

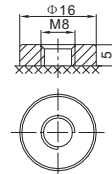
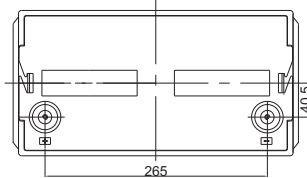
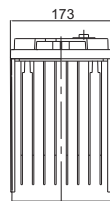
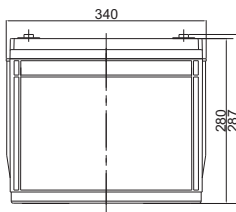


The HR (High Rate) series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 15 years design life in float service. By using strong grids and specially designed active material the HR series is with lower I.R, lower self discharge rate, high power, and longer 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.

Cells Per Unit	6
Voltage Per Unit	12
Capacity	570W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 45.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 3.9 mΩ
Terminal	F12(M8)
Max. Discharge Current	1500A (5 sec)
Short Circuit Current	2900A
Design Life	Could Reach 15 years
Recommended Maximum Charging Current	45 A
Reference Capacity	C10 141.5AH C20 150.0AH
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 ± 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.



Dimensions



F12 Terminal

Length	340±1mm (13.4 inches)
Width	173±1mm (6.81 inches)
Height	280±1mm (11.0 inches)
Total Height	287±1mm (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	516.9	447.2	406.3	325.4	261.4	191.6	110.2	81.6
1.67V	478.3	419.5	381.3	308.4	243.8	182.7	105.0	77.7
1.70V	458.4	404.8	367.5	298.9	234.5	177.5	102.0	75.3
1.75V	433.0	384.5	345.1	284.9	228.1	172.5	100.3	73.6
1.80V	407.2	364.3	322.5	270.7	221.4	167.2	98.3	71.9
1.85V	380.0	342.5	299.0	255.3	213.6	161.0	95.9	69.7

Constant Power Discharge Characteristics : WPC (25°C)

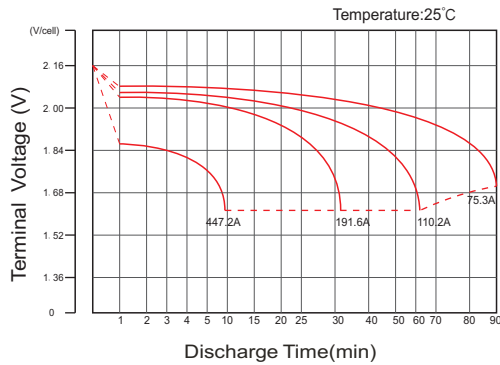
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	922	809	740	596	480	353	204	151
1.67V	861	766	701	570	453	340	196	146
1.70V	835	748	683	559	440	334	193	143
1.75V	799	720	650	540	434	329	192	141
1.80V	762	692	616	520	427	323	191	140
1.85V	726	664	583	501	421	318	190	139

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

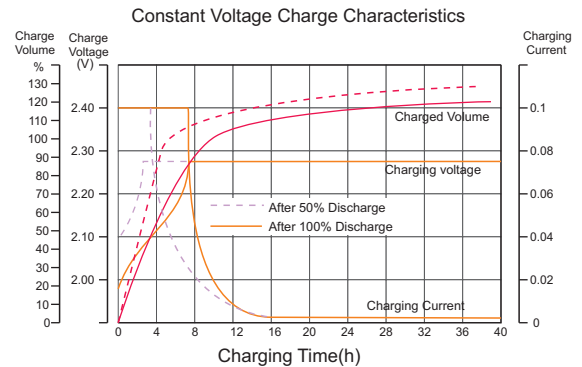
HR12-570WSL



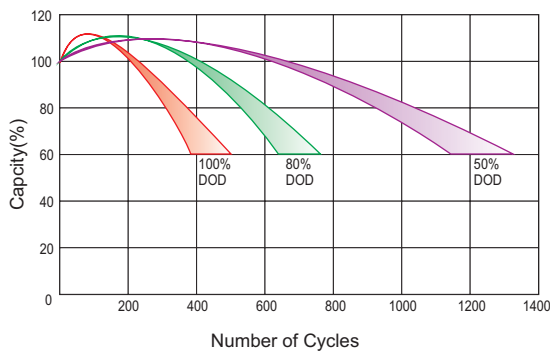
Discharge Characteristics Curve



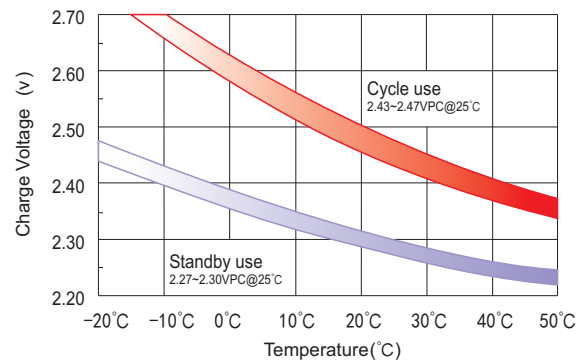
Charge Characteristic Curve For Standby Use



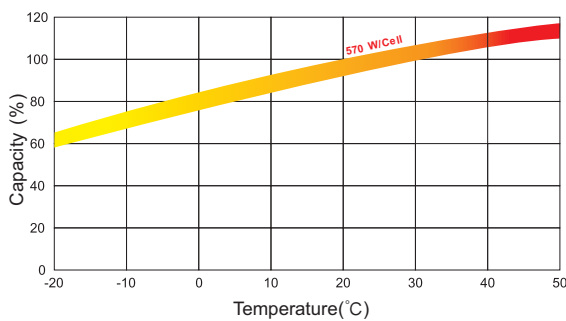
Cycle Life In Relation To Depth Of Discharge



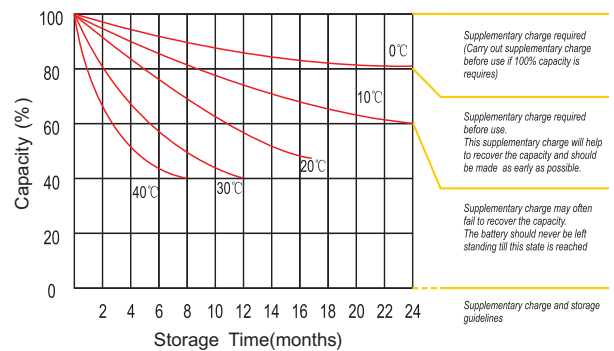
Relationship Between Charging Voltage And Temperature



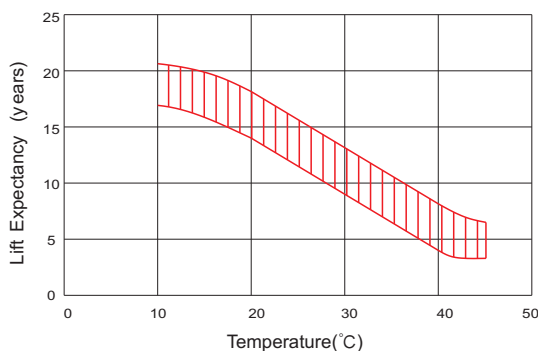
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

