



# HR12-240WL

## Specification

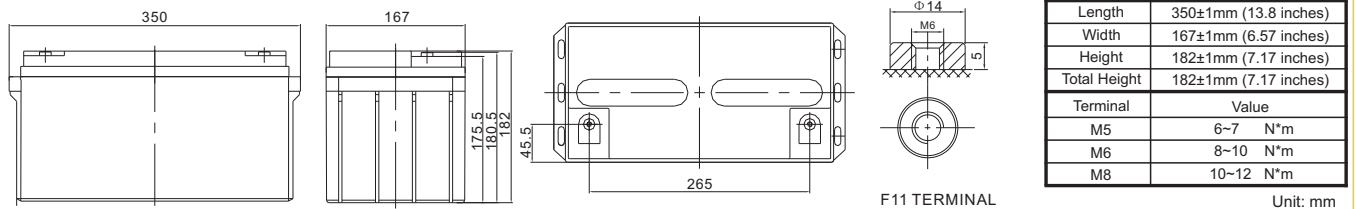
Cells Per Unit	6
Voltage Per Unit	12
Capacity	240W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 21.0 Kg (Tolerance ±2.0%)
Internal Resistance	Approx. 5.5 mΩ
Terminal	F11(M6)
Max. Discharge Current	650A (5 sec)
Short Circuit Current	1650A
Design Life	Could Reach 15 years
Recommended Maximum Charging Current	19.5 A
Reference Capacity	C10 61.3AH C20 65.0AH
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.



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



### Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	229.8	196.8	177.0	140.6	112.9	82.8	47.6	35.2
1.67V	212.6	184.6	166.1	133.3	105.3	78.9	45.4	33.6
1.70V	203.8	178.1	160.0	129.2	101.3	76.7	44.1	32.5
1.75V	192.5	169.2	150.3	123.1	98.6	74.5	43.3	31.8
1.80V	181.0	160.3	140.5	116.9	95.6	72.2	42.5	31.0
1.85V	168.9	150.7	130.2	110.3	92.3	69.6	41.5	30.1

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

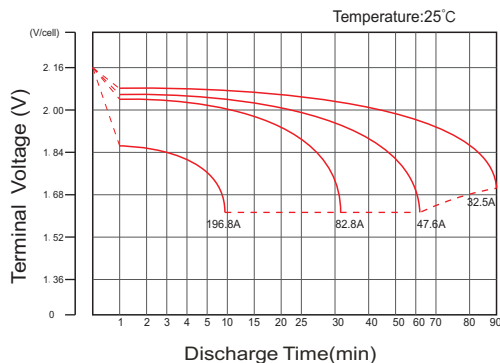
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	410	356	322	257	208	152	88.0	65.4
1.67V	383	337	305	246	196	147	84.7	62.9
1.70V	371	329	298	242	190	144	83.2	61.7
1.75V	355	317	283	233	187	142	82.9	61.1
1.80V	339	304	268	225	184	140	82.4	60.5
1.85V	323	292	254	216	182	137	82.1	59.9

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

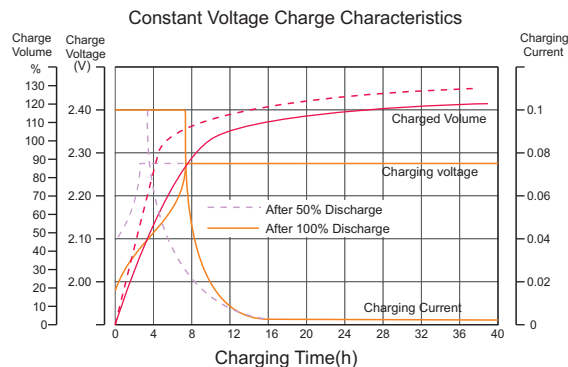
# HR12-240WL



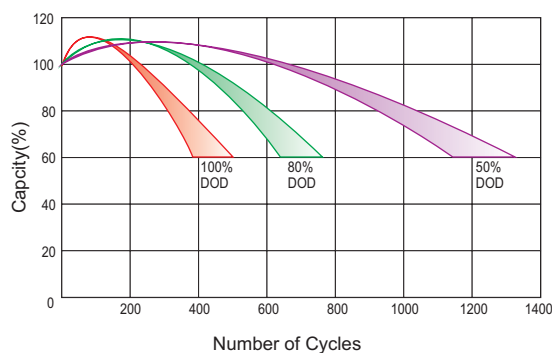
## Discharge Characteristics Curve



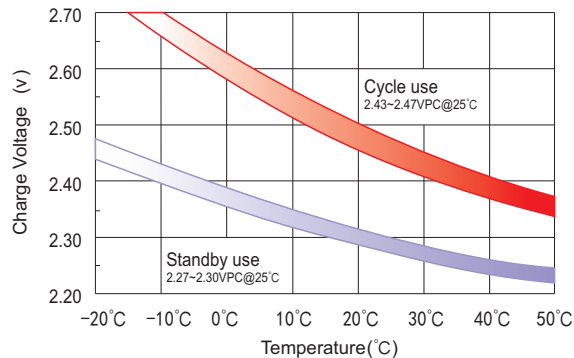
## Charge Characteristic Curve For Standby Use



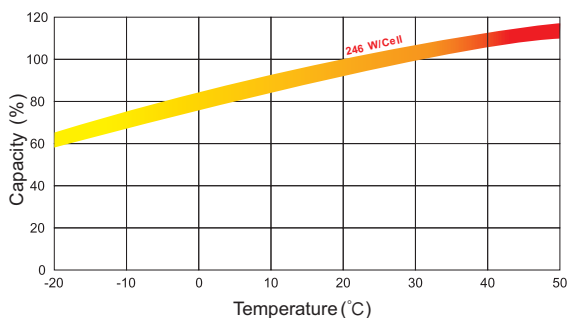
## Cycle Life In Relation To Depth Of Discharge



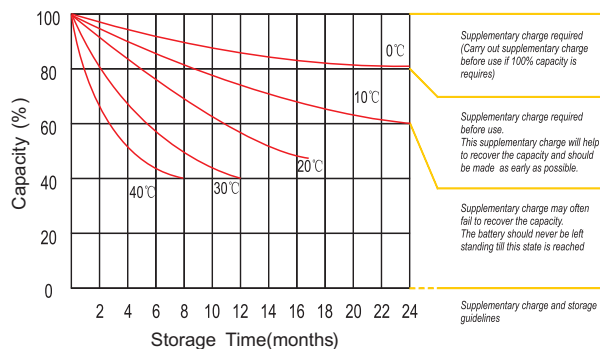
## Relationship Between Charging Voltage And Temperature



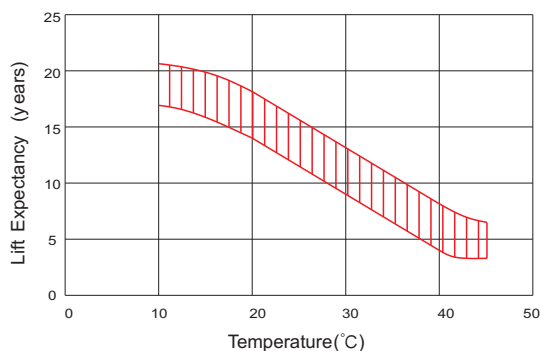
## Temperature Effects On Capacity



## Storage Characteristics



## Effect Of Temperature On Long Term Life



## Life Characteristics Of Standby Use

