



HR12-80W

Specification

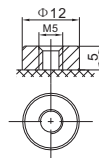
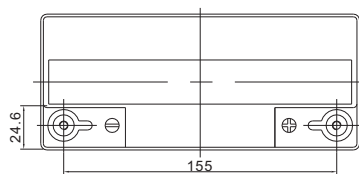
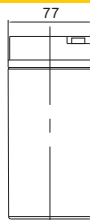
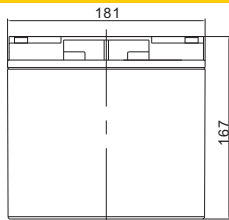
Cells Per Unit	6
Voltage Per Unit	12
Capacity	80W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 6.20 Kg (Tolerance ±4.0%)
Internal Resistance	Approx. 12 mΩ
Terminal	F3(M5)/F13(M5)
Max. Discharge Current	200A (5 sec)
Short Circuit Current	900A
Design Life	Could Reach 8 years
Recommended Maximum Charging Current	6.0 A
Reference Capacity	C10 18.8AH C20 20.0AH
Standby Use Voltage	13.7 V~13.9 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 8 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



F13 TERMINAL

Length	181±1mm (7.13 inches)
Width	77±1mm (3.03 inches)
Height	167±1mm (6.57 inches)
Total Height	167±1mm (6.57 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	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	91.93	79.94	66.46	58.64	45.33	36.69	26.86	15.66	11.42
1.67V	85.06	73.97	62.34	55.02	42.97	34.22	25.61	14.93	10.87
1.70V	81.53	70.89	60.15	53.03	41.64	32.92	24.88	14.50	10.54
1.75V	77.00	66.96	57.14	49.79	39.69	32.02	24.18	14.26	10.31
1.80V	72.42	62.98	54.14	46.54	37.70	31.07	23.44	13.98	10.06
1.85V	67.59	58.77	50.90	43.15	35.56	29.99	22.57	13.64	9.755

Constant Power Discharge Characteristics : WPC (25°C)

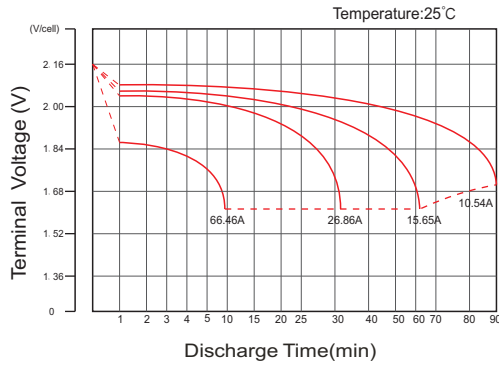
F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	166	145	122	108	84.3	67.4	49.5	29.0	21.2
1.67V	156	135	116	103	80.7	63.5	47.6	27.9	20.4
1.70V	151	131	113	100	79.1	61.8	46.8	27.4	20.0
1.75V	144	125	109	95.2	76.4	60.9	46.1	27.3	19.8
1.80V	138	120	104	90.3	73.6	59.9	45.3	27.1	19.6
1.85V	131	114	100	85.4	70.8	59.0	44.5	27.0	19.4

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

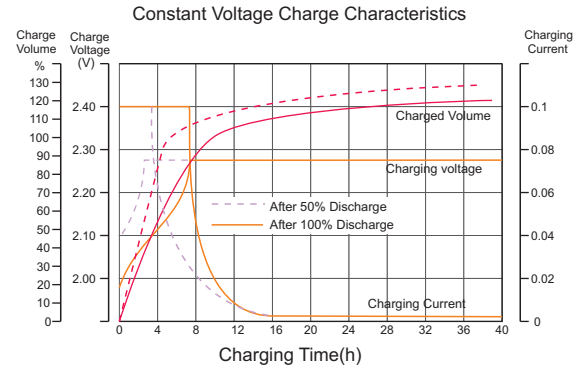
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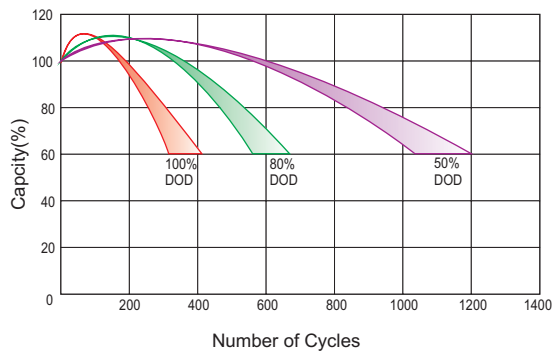
Discharge Characteristics Curve



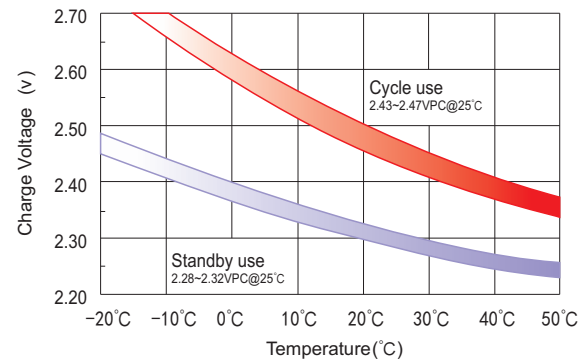
Charge Characteristic Curve For Standby Use



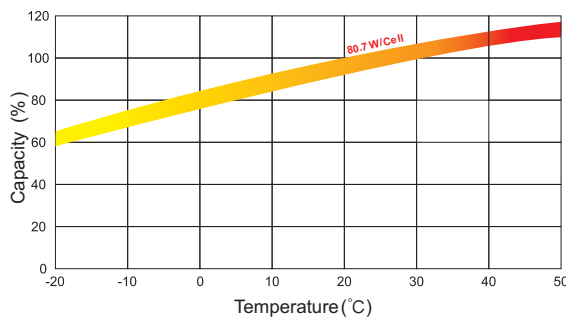
Cycle Life In Relation To Depth Of Discharge



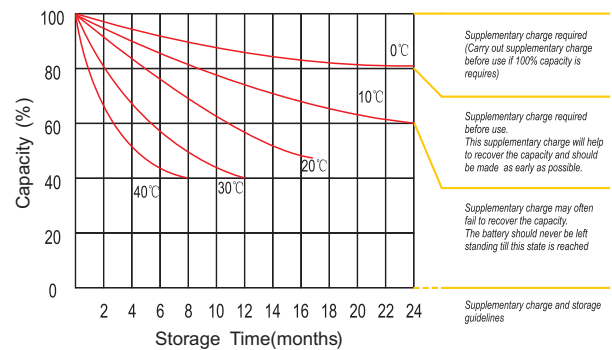
Relationship Between Charging Voltage And Temperature



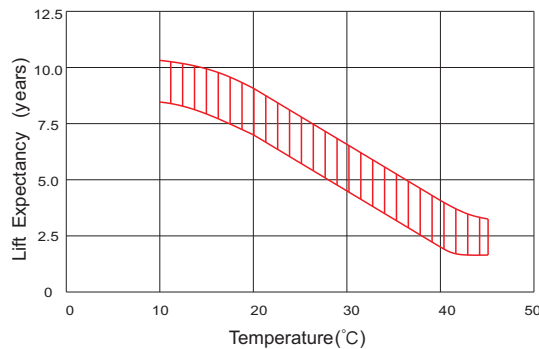
Temperature Effects On Capacity



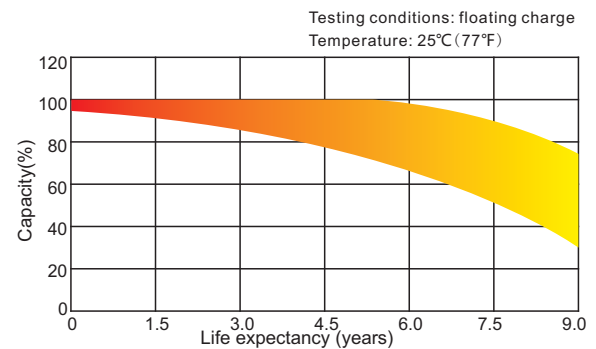
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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