

HR12-20W

(20.0w/cell)

HR (High Rate) series is especially designed for heavy load discharge applications with 5 years design life in float service. By using strong grids and specially designed active material the HR series offers stable performance during high current discharge requirements .The HR series offers 30% more power output than the standard range. Suitable for UPS/EPS where high current loads are required.

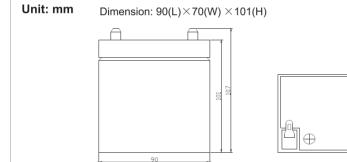


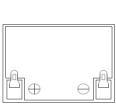
Specification

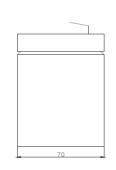
6
12
20.0W@15min-rate to 1.67V per cell @25°C
Approx. 1.7 Kg(Tolerance±4%)
50 A (5 sec)
Approx. 30 m Ω
Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
25°C±5°C
13.7 to 13.9 VDC/unit Average at 25°C
1.5 A
14.6 to 14.8 VDC/unit Average at 25°C
RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal F1/F2
A.B.S. UL94-HB, UL94-V0 Optional.

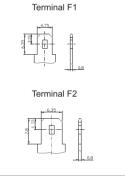


Dimensions









Constant Current Discharge Characteristics : A(25°C)

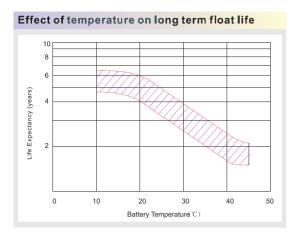
F.V/Tim e	5 M IN	8 M IN	10 M IN	15 M IN	20 M IN	30 M IN	60 M IN	90 M IN
9.60V	21.78	16.10	14.48	10.51	8.619	6.350	3.577	2.824
10.0V	21.49	15.98	14.25	10.32	8.354	6.212	3.540	2.791
10.2V	20.83	15.02	13.50	9.97	8.176	6.064	3.429	2.717
10.5V	20.11	13.89	12.33	9.36	7.839	5.861	3.304	2.687
10.8V	18.57	12.90	11.04	8.94	7.621	5.113	3.178	2.601
11.1V	17.02	11.90	10.16	8.521	7.404	4.665	3.053	2.515

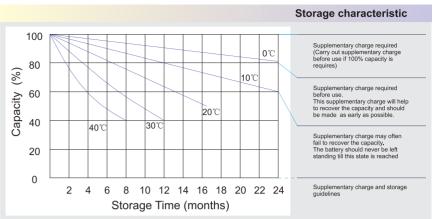
Constant Power Discharge Characteristics: W(25°C)

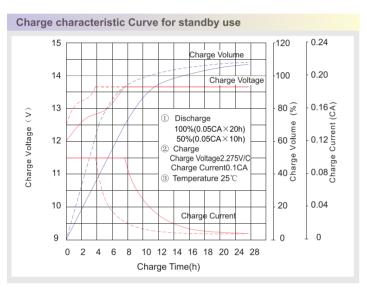
F.V/Tim e	5 M IN	8 M IN	10 M IN	15 M IN	20 M IN	30 M IN	60 M IN	90MIN
9.60V	242.6	180.5	162.8	122.1	101.2	76.74	43.75	34.93
10.0V	241.6	182.2	163.2	120.4	98.44	75.26	43.49	34.81
10.2V	238.6	173.1	156.0	116.8	96.90	73.96	42.29	34.01
10.5V	233.6	161.8	143.8	109.9	93.33	72.01	40.98	33.64
10.8V	217.6	151.8	130.2	106.2	91.71	63.43	39.47	32.59
11.1V	202.4	141.7	121.2	102.5	90.16	58.23	38.25	31.61

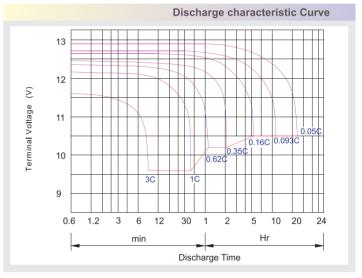
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Capacity Factors With Different Temperature

Battery	Туре	-20℃	-10℃	0℃	5℃	10℃	20℃	25℃	30℃	40°C	45℃
GEL	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Battery	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
Battery	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Tel:+86-755-33981668 Fax:86-755-8347-5180

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage		-0.2Cx2h +14.4~14.7Vx24h,Max. Current 0.3CA
	Constant Current	-0.2Cx2h+0.1CAx12h
	Fast	-0.2Cx2h+0.3CAx4.0h

Maintenance & Cautions

Float Service:

፠ Ev∈	ery three months, recommend equalization charge for one time.
Equali	zation charge method:
Discha	arge: 100% rate capacity discharge.
Charge	e: Max. current 0.3CA, constant voltage 14.4-14.7V charge 24h.
፠ Effe	ect of temperature on float charge voltage: -3mV/°C/Cell.
፠ Ler	ngth of service life will be directly affected by the number of discharge
cycl	les, depth of discharge, ambient temperature and charging voltage.

* Every month, recommend inspection every battery voltage.