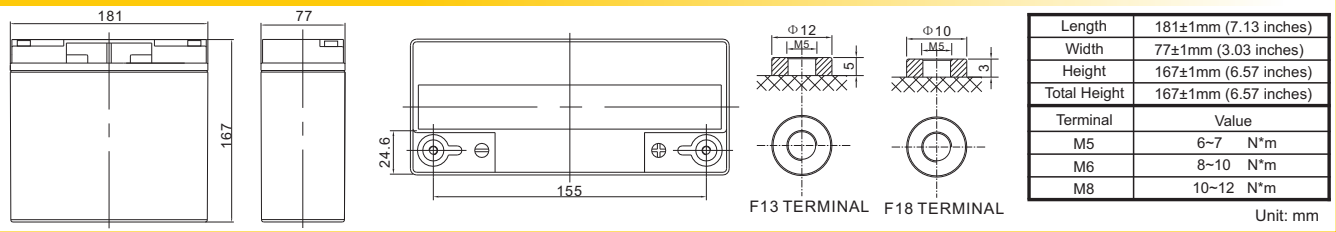
HR12-88W

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	88W@15min-rate to 1.67V per cell @25℃
Weight	Approx. 6.30 Kg (Tolerance±4.0%)
Internal Resistance	Approx. 10 mΩ
Terminal	F18(M5)/F13(M5)/F3(M5)
Max. Discharge Current	220A (5 sec)
Short Circuit Current	920A
Design Life	Could Reach 8 years
Recommended Maximum Charging Current	6.6 A
Reference Capacity	C10 20.8AH C20 22.0AH
Standby Use Voltage	13.7 V~13.9 V @ 25℃
Cycle Use Voltage	14.6 V~14.8 V @ 25℃
Operating Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.Please charge batteries before using.
Container 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



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℃)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	99.10	86.17	71.64	63.21	49.86	40.36	29.55	17.23	12.56
1.67V	91.70	79.74	67.21	59.31	47.26	37.65	28.17	16.42	11.96
1.70V	87.88	76.42	64.84	57.16	45.81	36.21	27.37	15.95	11.60
1.75V	83.01	72.18	61.60	53.68	43.66	35.22	26.60	15.69	11.34
1.80V	78.07	67.89	58.36	50.17	41.47	34.18	25.79	15.38	11.06
1.85V	72.86	63.36	54.87	46.51	39.11	32.98	24.83	15.01	10.73

Constant Power Discharge Characteristics : WPC (25℃)

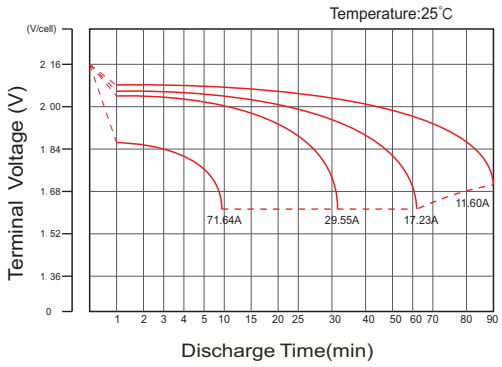
F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	179	156	132	117	92.7	74.2	54.4	31.9	23.3
1.67V	168	146	125	111	88.8	69.9	52.4	30.7	22.4
1.70V	163	141	122	108	87.0	68.0	51.5	30.1	22.0
1.75V	156	135	117	103	84.0	67.0	50.7	30.0	21.8
1.80V	148	129	113	97.4	81.0	65.9	49.9	29.8	21.6
1.85V	141	123	108	92.1	77.9	64.9	49.0	29.7	21.3

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

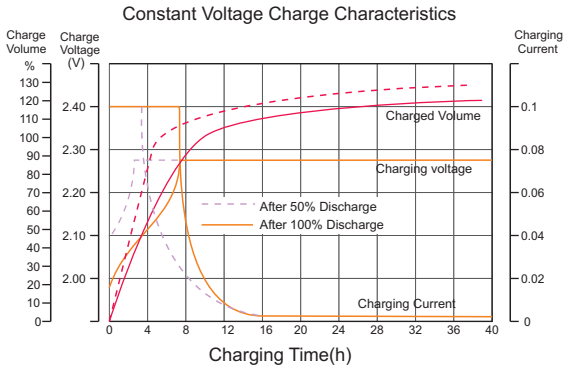
HR12-88W

RITAR®

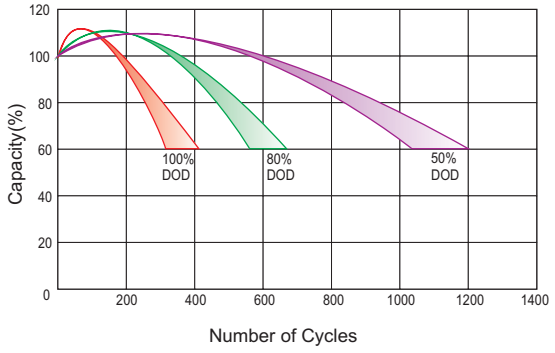
Discharge Characteristics Curve



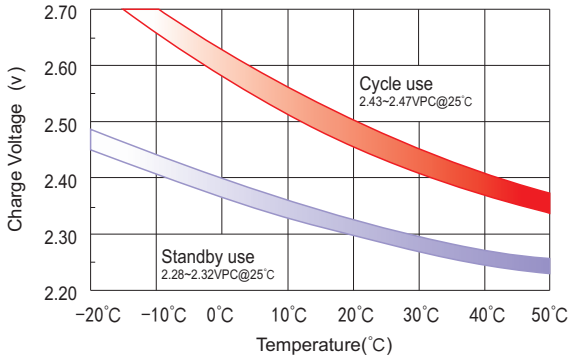
Charge Characteristic Curve For Standby Use



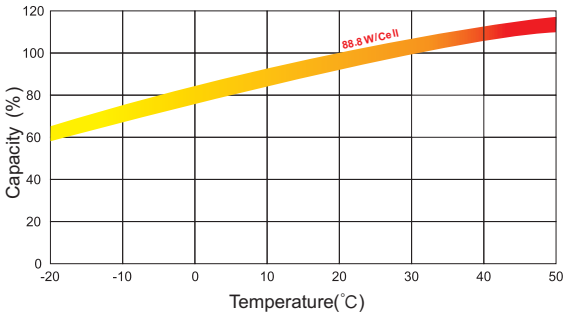
Cycle Life In Relation To Depth Of Discharge



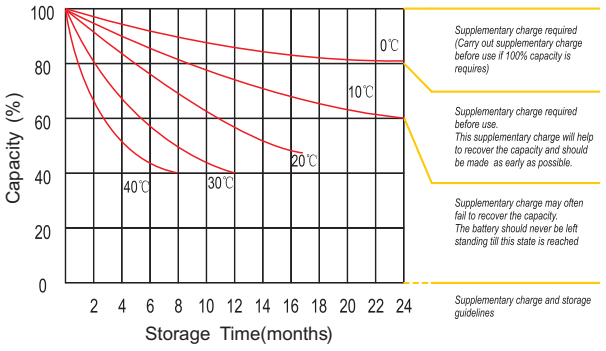
Relationship Between Charging Voltage And Temperature



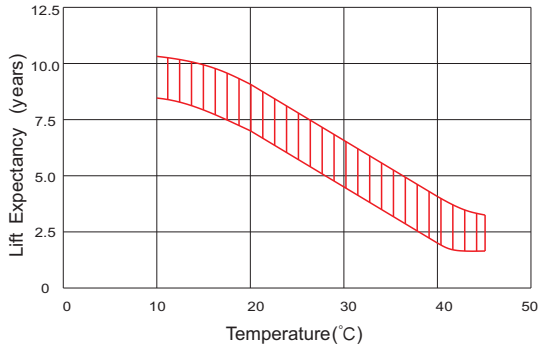
Temperature Effects On Capacity



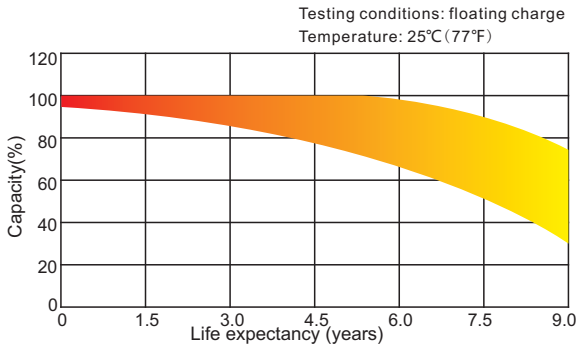
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



SHENZHEN RITAR POWER CO.,LTD.
URL: www.ritarpower.com

Add: 10th Floor, Tower C, 1st Building, Software Industry Base, No.81, Xuefu Road, Nanshan District, Shenzhen, Guangdong, China 518057
Tel: +86-755-33981668/83475380 Fax: +86-755-83475180 E-mail: sales@ritarpower.com Version 17A-0