



RA12-33H (12V 33Ah)

RA12-33H is a general purpose battery with 10 years design life time in float charging use. As with all MASTERSAFE batteries, all RA models are rechargeable, highly efficient, leak proof and maintenance free.

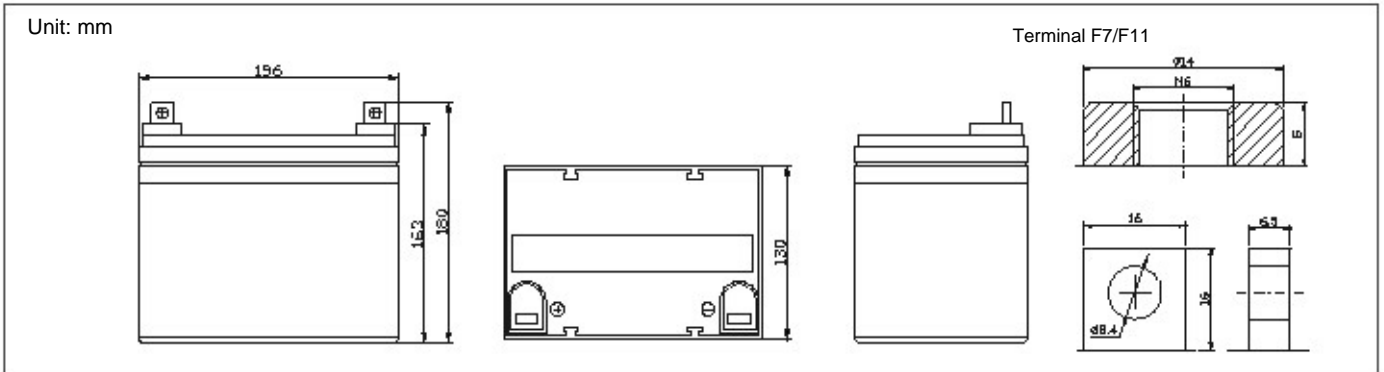


Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	33Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 10.2 Kg
Max. Discharge Current	165 A (5 sec)
Internal Resistance	Approx. 9 m
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
Float charging Voltage	13.6 to 13.8 V DC/unit Average at 25°C
Recommended Maximum Charging Current Limit	9.9 A
Equalization and Cycle Service	14.4 to 15.0 V DC/unit Average at 25°C
Self Discharge	RITAR batteries can be stored for more than 6 months at 25°C. Please charge batteries before using. For higher temperature, the time interval will be shorter.
Terminal	Terminal F7/F11
Container Material	A.B.S. (UL94-HB) Flammability resistance of UL94-V1 can be available upon request.



Dimensions



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

F.V /Time	5MIN	10M IN	15MIN	30M IN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60 V	123	88	64	38	21.5	13.2	8.6	7.1	5.6	4.1	3.4	1.8
1.67 V	120	84	63	37	21.4	13.1	8.6	7.1	5.6	4.0	3.4	1.8
1.70 V	113	81	62	37	21.2	13.0	8.5	7.1	5.5	4.0	3.4	1.7
1.75 V	102	75	59	36	21.0	12.9	8.5	7.0	5.5	4.0	3.3	1.7
1.80 V	92	68	54	34	20.5	12.6	8.3	6.8	5.4	3.9	3.3	1.7
1.85 V	80	61	49	32	19.4	12.1	7.9	6.5	5.1	3.7	3.2	1.6

Constant Power Discharge Characteristics Unit: W (25°C)

F.V /Time	5MIN	10M IN	15MIN	30M IN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60 V	221	162	119	71	40.9	25.2	16.6	13.7	10.8	7.9	6.4	3.4
1.67 V	217	155	117	70	40.7	25.1	16.5	13.7	10.8	7.8	6.4	3.4
1.70 V	205	149	115	70	40.4	24.9	16.4	13.6	10.7	7.8	6.3	3.3
1.75 V	184	138	110	68	40.0	24.7	16.3	13.5	10.6	7.7	6.3	3.3
1.80 V	166	125	101	65	39.0	24.3	15.9	13.2	10.5	7.5	6.2	3.3
1.85 V	143	111	90	61	37.0	23.2	15.1	12.5	9.9	7.3	6.0	3.1

All mentioned values are average values.

