

# Lead Acid Rechargeable Battery **multicomp** PRO

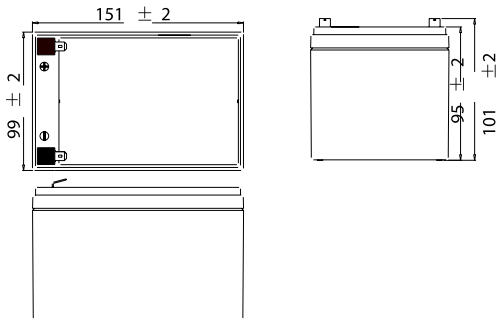
**RoHS  
Compliant**



## Application

- UPS
- Toys
- Power tools
- Medical Equipment
- Control Equipment
- Communication Equipment
- Alarm and security system

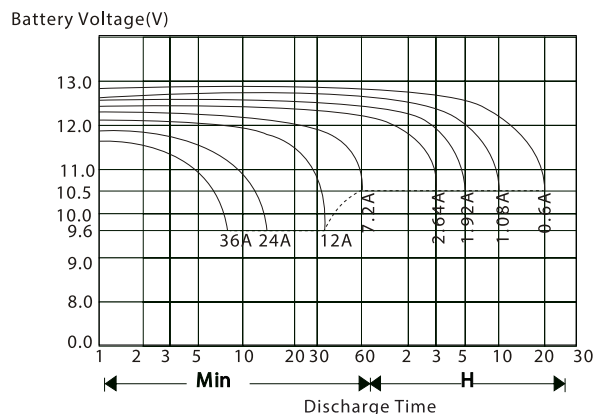
## Dimensions



Nominal voltage	12V	
Rated Capacity (20 HR)	12Ah	
Approx Weight	3.5kg	
Terminal	Standard	F1-TAB 187E
	Optional	F2-TAB 250A
Operation Temperature		
Charge	0°C (32°F) to 40°C (104°F)	
Discharge	-20°C (-4°F) to 50°C (122°F)	
Storage	-20°C (-4°F) to 40°C (104°F)	

Capacity 25°C (77°F)	20 hour rate (0.6A)	12Ah
	10 hour rate (1.08A)	10.8Ah
	5 hour rate (1.92A)	9.6Ah
	1 hour rate (7.2A)	7.2Ah
Capacity affected by temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
	-15°C (5°F)	65%
Self-discharge at 25°C (77°F) Before recharge	Capacity after 3 month	91%
	Capacity after 6 month	82%
	Capacity after 12 month	64%
Constant voltage charge	Cycle	Initial Charging Current ≤3.6A 14.4V to 15V at 25°C (77°F)
	Standby	13.5V to 13.8V at 25°C (77°F)
Max discharge current for 5 seconds		168A

## Discharge characteristic



Dimensions : Millimetres

Note: Discharge shall be cut-off at 10.5V if discharge at 1CA and at 9.6V if at ≥1CA

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## Constant current (Amp) and Constant Power (Watt) Discharge Table at 25°C (77°F)

Time (min) Final voltage		5	10	15	20	30	60	120	180	300	600
		1.8VPC	A	48.19	28.48	23.29	18.41	12.48	6.75	4.47	2.30
	W	506	299	244.5	193.32	131.1	85	47	33	21	11.5
1.75VPC	A	48.57	31.62	23.57	18.68	12.75	7.2	4.67	2.64	1.92	1.08
	W	510	332	247.5	196.17	134.42	87.5	49.1	35.71	23.47	13.4
1.7VPC	A	48.76	31.81	23.71	18.82	12.93	8.47	4.8	3.5	2.29	1.29
	W	512	334	249	197.6	135.85	89	50.4	36.79	24.12	13.5
1.65VPC	A	48.95	30.68	23.9	19	13.11	8.67	4.85	3.53	2.32	1.29
	W	514	336	251	199.5	137.75	91	50.98	37.08	24.4	13.6
1.6VPC	A	49.04	32	24	19.08	13.20	8.76	4.88	3.55	2.34	1.31
	W	515	336	252	200.45	138.7	92	51.34	37.3	24.6	13.8

### Part Number Table

Description	Part Number
Battery, Lead Acid, 12Ah, 12V VR	MP012438

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