

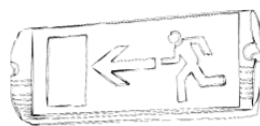
**Product features**

- Maintenance free battery, no need for watering
- Specific environmentally friendly formation process
- Spill & leak proof construction
- Analytical grade electrolyte
- Safety valves
- Container and lid made from ABS (UL 94 V-0 version available on request)
- Low self-discharge
- Non dangerous good according to FAA and IATA classification
- Complies with the following standards: IEC 60896-21/22, EUROBAT



**Specification**

Nominal voltage	12 V
Nominal capacity	7 Ah
Design life	12 years
Operating temperature	-20°C to 50°C (-4°F to 122°F)
Grid alloy	Lead-calcium-tin
Electrode design	Flat grid, pasted
Separator	<b>Absorbent Glass Mat (AGM)</b>
Active material	High purity lead and lead dioxide
Container and lid	ABS UL 94 HB (V-0 version on request)
Charge voltage	Float charging: 2.275 Vpc @ 20°C (68°F) Cyclic use: see instruction for use Maximum ripple: 0.05 C (A)
Electrolyte	Purified high grade sulfuric acid
Safety valve	EPDM rubber, opening pressure 10.5 to 14 kPa (1.5 to 2 psi), closing pressure ca. 7 kPa (1 psi)
Terminal	Faston 250

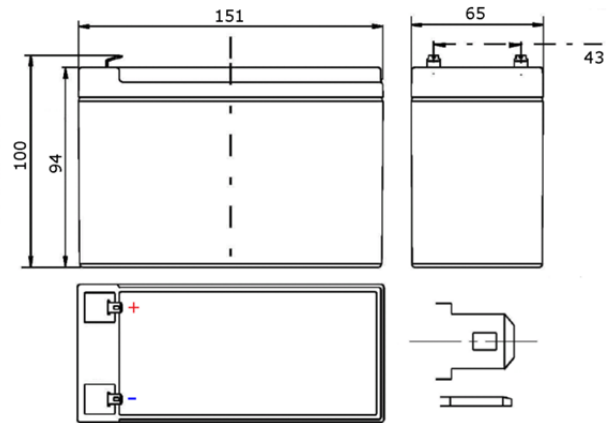


CTM GmbH encourages environmental awareness. Please observe all existing guidelines for recycling/disposal of lead.

## Physical Data

Dimension (±2 mm/± 0.08 inch)

Length	151 mm	5.94 inches
Width	65 mm	2.76 inches
Height	94 mm	3.70 inches
Height incl. terminal	100 mm	3.93 inches
Weight	2.4 kg	5.30 lbs.
Terminal	Standard	Faston 250
	Option	-



## Electrical Data

Nominal voltage		12 V
Capacity 20°C (68°F) to 1.7 Vpc	20 h	7.6 Ah
	10 h	7.1 Ah
	5 h	6.2 Ah
	1 h	4.0 Ah
	15 min	2.6 Ah
Internal resistance		23 mΩ
Impedance		- S
Temperature correction factors (C20)	40°C (104°F)	102%
	20°C (68°F)	100%
	0°C (32°F)	85%
	-15°C (5°F)	65%
Self-discharge at 20°C (68°F) - capacity after	1 month storage	98%
	3 months storage	94%
	6 months storage	86%
Short circuit current	A @ 20°C (68°F)	900
Charging voltage	Float charging	2.27-2.30 Vpc 25-15°C (77-59°F)
	cyclic	See operating instruction

## Constant current discharge – A @ 20°C (68°F)

Uf Vpc	10 min	15 min	30 min	60 min	3 h	5 h	8 h	10 h	20 h
1.85	9.0	7.5	5.2	3.3	1.6	1.1	0.7	0.6	0.3
1.80	11.5	9.1	6.1	3.7	1.8	1.1	0.8	0.7	0.3
1.75	12.7	9.9	6.4	3.9	1.8	1.2	0.8	0.7	0.3
1.70	13.8	10.6	6.6	4.0	1.8	1.2	0.8	0.7	0.3
1.65	14.9	11.3	7.0	4.1	1.9	1.2	0.8	0.7	0.3
1.60	16.2	12.1	7.4	4.3	2.0	1.3	0.8	0.7	0.3

## Constant power discharge – Watt per cell @ 20°C (68°F)

Uf Vpc	10 min	15 min	30 min	60 min	3 h	5 h	8 h	10 h	20 h
1.85	17.0	14.3	10.2	6.5	3.3	2.2	1.5	1.3	0.7
1.80	21.5	17.1	11.8	7.2	3.5	2.3	1.6	1.4	0.7
1.75	23.2	18.4	12.2	7.5	3.6	2.4	1.6	1.4	0.7
1.70	24.7	19.4	12.6	7.8	3.7	2.4	1.6	1.4	0.7
1.65	26.5	20.5	13.2	8.0	3.8	2.5	1.7	1.4	0.7
1.60	28.1	21.5	13.8	8.2	3.9	2.6	1.7	1.4	0.7

## Capacity – Ah @ 20°C (68°F)

Uf Vpc	2 h	3 h	5 h	8 h	10 h	20 h
1.85	4.2	5.0	5.5	6.1	6.6	7.3
1.80	4.6	5.4	5.9	6.5	7.0	7.4
1.75	4.8	5.5	6.0	6.7	7.0	7.5
1.70	5.0	5.6	6.2	6.8	7.1	7.6
1.65	5.1	5.7	6.4	6.8	7.2	7.7
1.60	5.3	6.1	6.6	6.9	7.3	7.7

