

Industrial Batteries – Network Power
Sonnenschein A400
Outstanding cost efficient.

Specifications

Make use of the superiority of the experienced dryfit technology.

Specifications

- The success of Sonnenschein A400 batteries comes from the internationally superior dryfit technology
- Exceptional energy storage capacity combined with long life
- Maintenance-free (no topping up) during the whole service life due to the Sonnenschein dryfit technology
- Nominal capacity 5.5 – 180 Ah C₁₀
- 12 years design life at 20°C ambient temperature (80% remaining capacity from C₁₀)
- EUROBAT Classification: Long Life
- Grid plate construction consisting of a lead calcium alloy
- Very low gassing due to internal gas recombination
- Shelf life up to 2 years at 20°C without recharge due to the very low self discharge rate
- Short recharging time
- Proof against deep discharge according to DIN 43 539 T5
- Trouble-free transport of operational blocks, no restrictions for rail, road, sea and air transportation (IATA, DGR clause A67)
- Completely recyclable



Applications

In telecommunications, Sonnenschein A400 batteries are simply indispensable. But also in applications like utility, emergency lighting, security, railways and other safety power supplies the Sonnenschein A400 is an absolutely reliable source of energy.



Valve regulated lead acid batteries



Grid plate



Nominal capacity 5.5 – 180 Ah



Block battery



Design life: 12 years



Maintenance-free (no topping up)



Proof against deep discharge acc. to DIN 43 539 T5

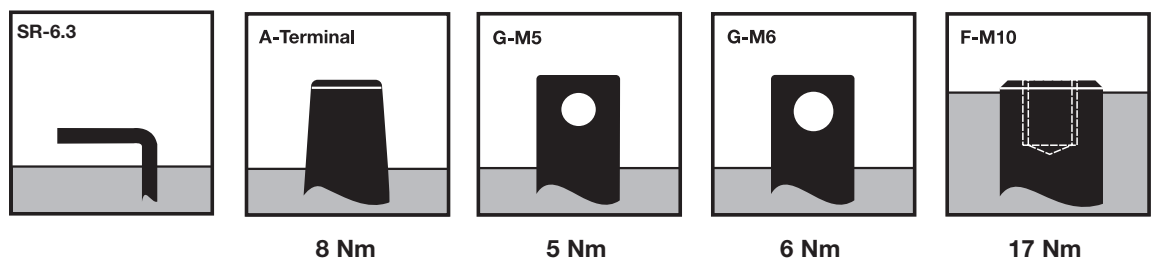


Recyclable

Type	Part number	Nominal voltage	Nominal capacity	Discharge current	Max. load*	Length (l)	Width (b/w)	Height up to top of cover (h1)	Height over terminals (h2)	Weight	Internal resistance acc. to IEC 896-2	Short circuit current acc. to IEC 896-2	Terminal
		V	C ₁₀ 1.8 V/C 20°C Ah	I ₁₀ A	approx. A	max. mm	max. mm	max. mm	max. mm	approx. kg	m Ω	A	
A406/165 A	NGA4060165HSOCA	6	165.0	16.50	770	190	244.0	254.0	275.0	31.0	2.1	2800	A-Terminal
A406/165 F10	NGA4060165HSOFA	6	165.0	16.50	770	190	244.0	254.0	282.0***	31.5	2.1	2800	F-M10
A412/5.5 SR	NGA41205D5HSORA	12	5.5	0.55	80	152	65.5	94.5	98.4	2.5	138.0	93	SR-6.3
A412/8.5 SR	NGA41208D5HSORA	12	8.5	0.85	80	152	98.0	94.5	98.4	3.6	86.0	150	SR-6.3
A412/12 SR	NGA4120012HSORA	12	12.0	1.20	100	181	76.0	152.0	156.4	5.5	47.0	260	SR-6.3
A412/20 G5	NGA4120020HSOBA	12	20.0	2.00	200	167	176.0	126.0	126.0	8.5	25.0	460	G-M5
A412/32 G6	NGA4120032HSOBA	12	32.0	3.20	400	210	175.0	175.0	175.0	13.6	15.0	784	G-M6
A412/32 F10	NGA4120032HSOFA	12	32.0	3.20	400	210	175.0	175.0	181.0***	14.1	15.0	784	F-M10
A412/50 A	NGA4120050HSOCA	12	50.0	5.00	440	278	175.0	190.0	190.0	19.5	10.0	1220	A-Terminal
A412/50 F10	NGA4120050HSOFA	12	50.0	5.00	440	278	175.0	190.0	196.0***	20.0	10.0	1220	F-M10
A412/50 G6	NGA4120050HSOBA	12	50.0	5.00	440	278	175.0	190.0	190.0	19.5	10.0	1220	G-M6
A412/65 F10	NGA4120065HSOFA	12	65.0	6.50	440	353	175.0	190.0	196.0***	25.1	9.0	1414	F-M10
A412/65 G6	NGA4120065HSOBA	12	65.0	6.50	440	353	175.0	190.0	190.0	24.6	9.0	1414	G-M6
A412/85 F10**	NGA4120085HSOFA	12	85.0	8.50	770	204	244.0	250.0	276.0***	32.0	8.0	1472	F-M10
A412/90 A	NGA4120090HSOCA	12	90.0	9.00	770	286	269.0	208.0	230.0	34.5	7.0	1733	A-Terminal
A412/90 F10	NGA4120090HSOFA	12	90.0	9.00	770	286	269.0	208.0	237.0***	35.0	7.0	1733	F-M10
A412/100 A	NGA4120100HSOCA	12	100.0	10.00	770	513	189.0	195.0	223.0	39.0	6.9	1777	A-Terminal
A412/100 F10	NGA4120100HSOFA	12	100.0	10.00	770	513	189.0	195.0	223.0***	39.5	6.9	1777	F-M10
A412/120 A	NGA4120120HSOCA	12	120.0	12.00	770	513	223.0	195.0	223.0	48.0	5.7	2118	A-Terminal
A412/120 F10	NGA4120120HSOFA	12	120.0	12.00	770	513	223.0	195.0	223.0***	49.5	5.7	2118	F-M10
A412/180 A	NGA4120180HSOCA	12	180.0	18.00	770	518	274.0	216.0	238.0	69.5	3.8	3227	A-Terminal
A412/180 F10	NGA4120180HSOFA	12	180.0	18.00	770	518	274.0	216.0	244.0***	70.0	3.8	3227	F-M10

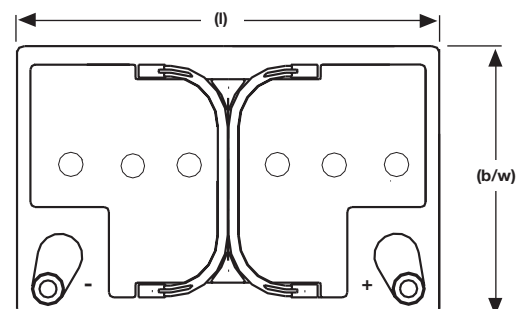
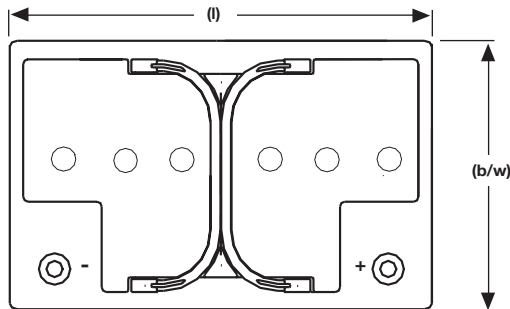
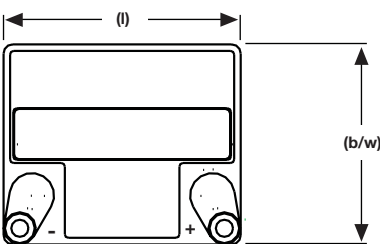
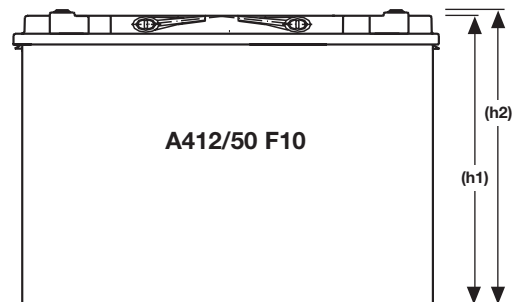
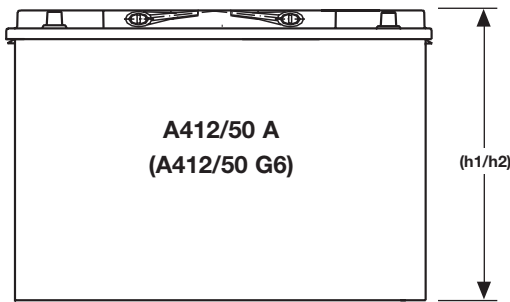
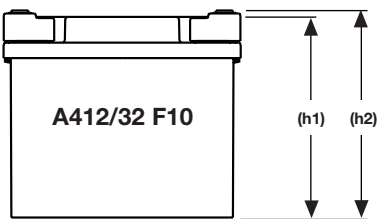
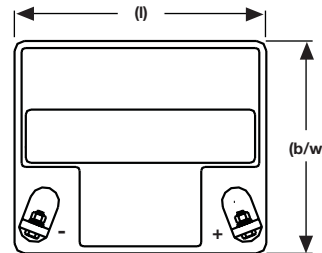
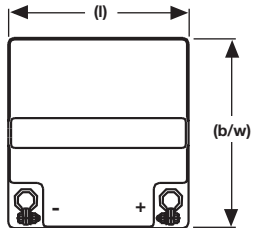
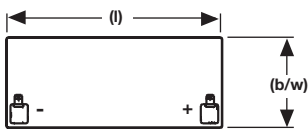
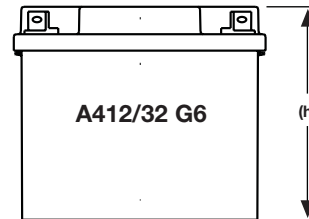
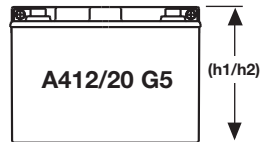
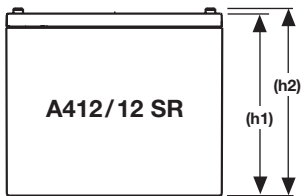
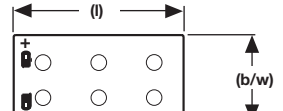
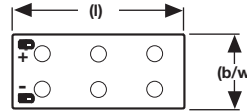
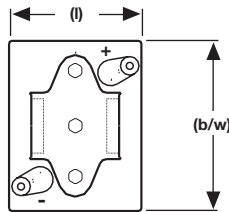
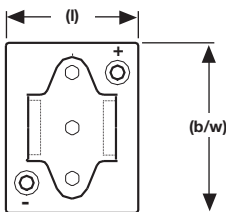
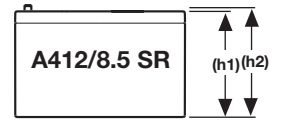
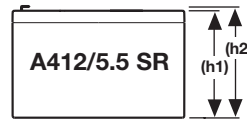
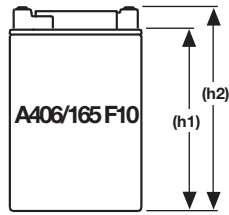
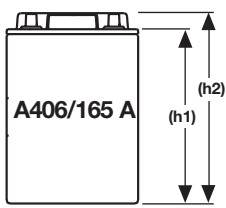
*With suitable matching contacts **With central degassing ***plus max. 24 mm for connector/screw

Container, approval, terminal and torque

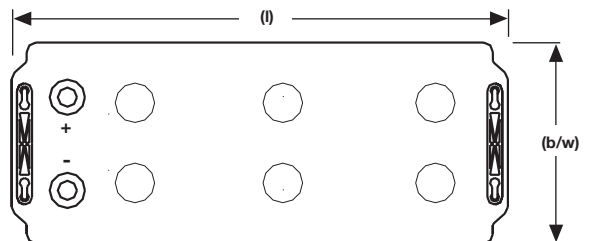
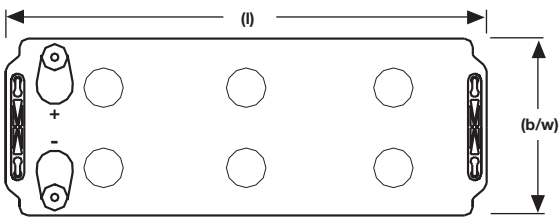
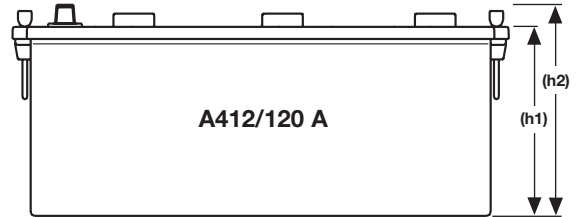
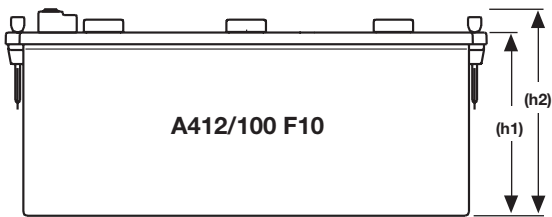
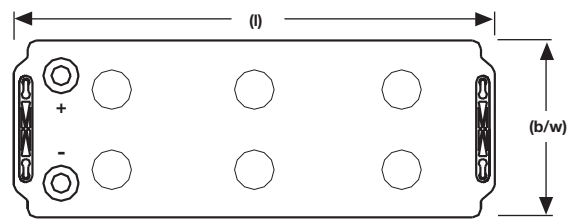
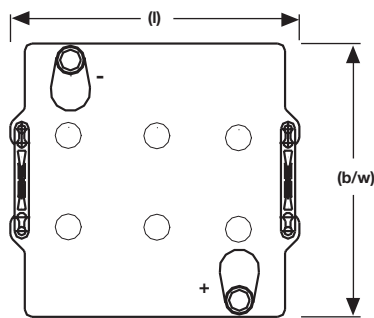
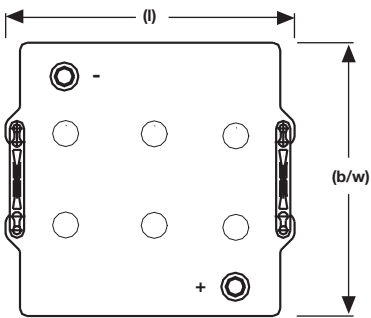
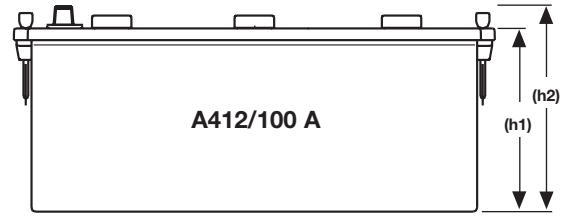
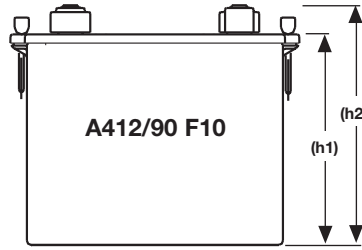
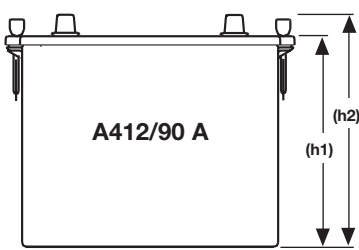
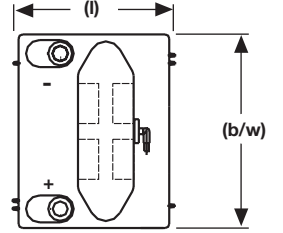
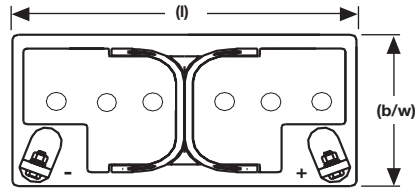
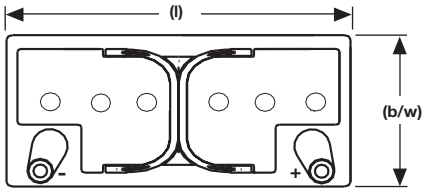
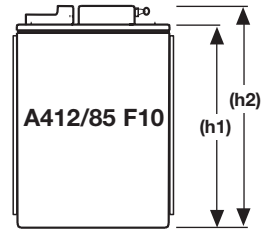
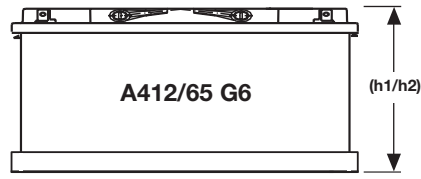
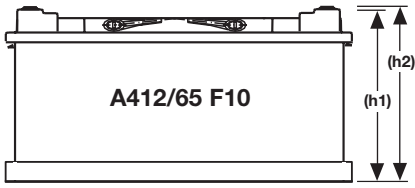


Container: 5.5–12 Ah = ABS
20–180 Ah = Polypropylene (PP)

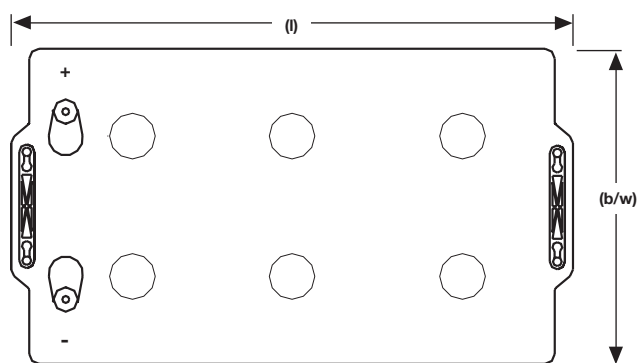
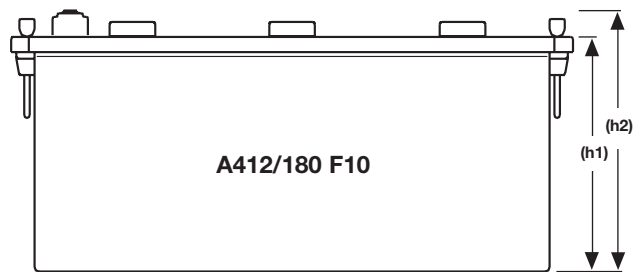
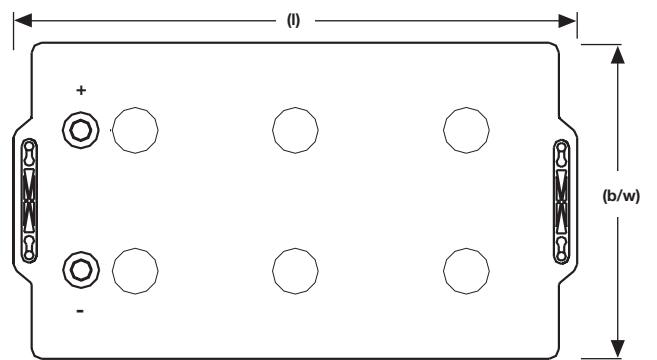
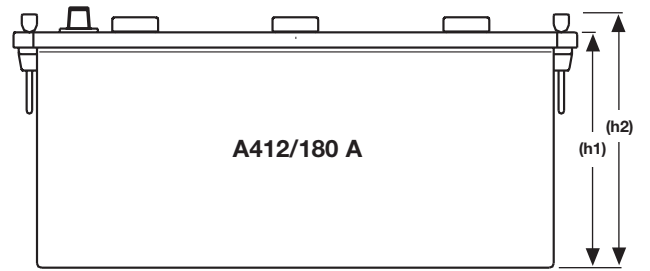
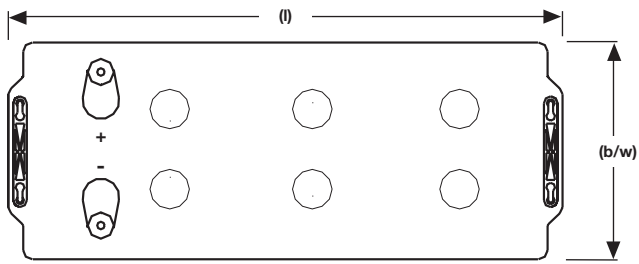
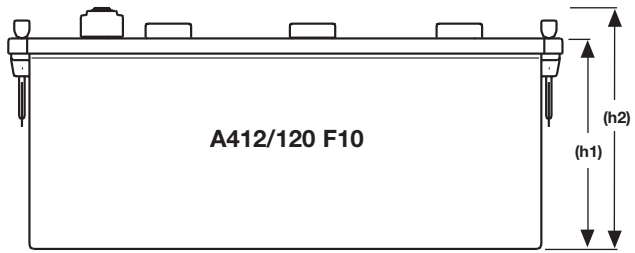
Approval: Underwriters Laboratories (UL), USA
DIN/Gost/TÜV, Russia



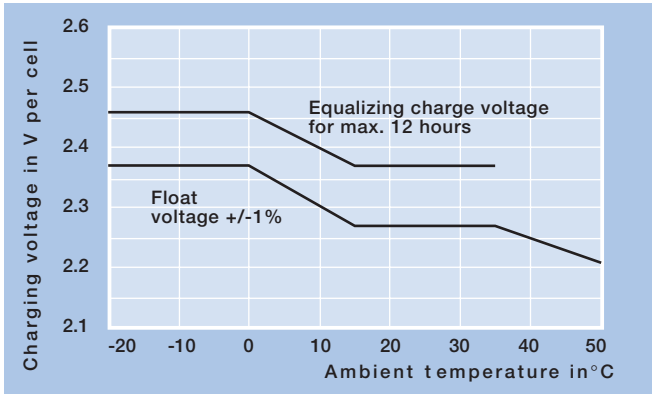
Not to scale!



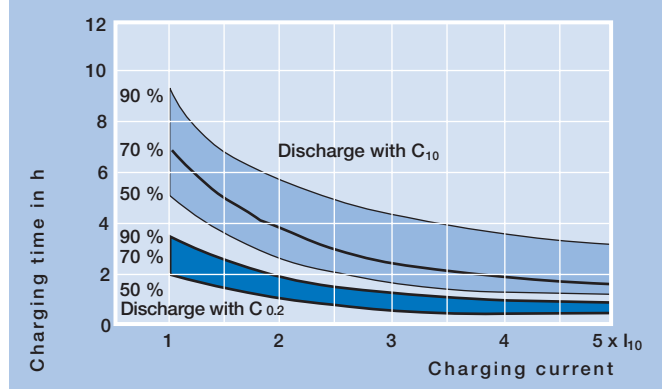
Dimensions



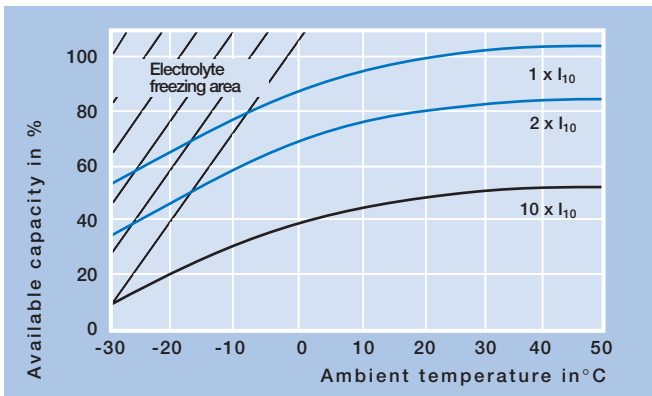
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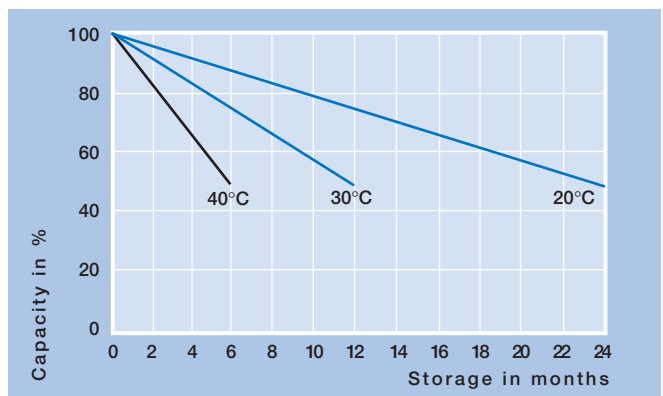
For charging 2.27 V/cell is recommended. The charging voltage must be compensated according to the curve for continuously different battery ambient temperature.



Recharging time in dependence of charging current (guide values) for up to 50, 70 and 90% of capacity at 20°C and with a charging voltage of 2.27 V/cell.



Extracted capacity in relation to the temperature.



Self-discharge in relation to the storage temperature.