



POWER

FLEXIS

MULTIFUNCTIONAL BATTERY CHARGER

Programmable, high-frequency modular traction batteries charger

www.axima-power.com



INTELLIGENT CHARGING



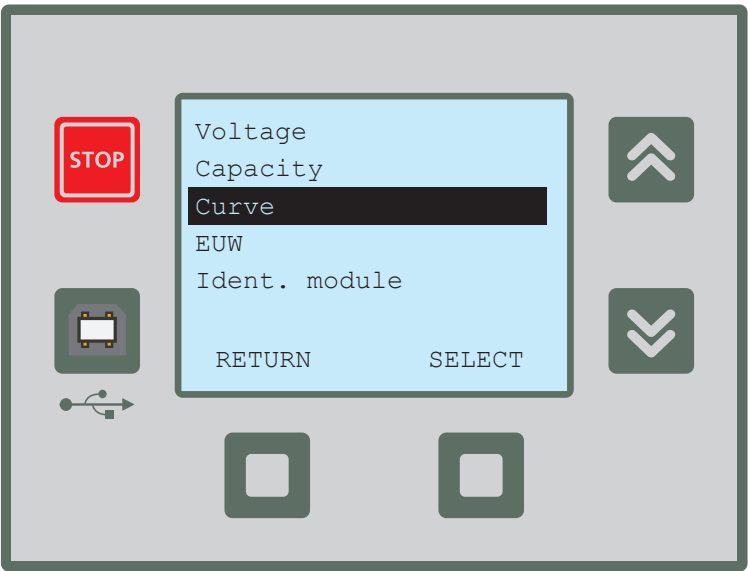
MAIN FEATURES:

- OPPORTUNITY CHARGING
- TIME – SCHEDULED CHARGING
- AUTOMATIC BATTERY VOLTAGE AND CAPACITY RECOGNITION
- DEDICATED CHARGING CURVES FOR LITHIUM BATTERIES
- ESTIMATED TIME – TO – END – OF – CHARGING CYCLE
- LOW OPERATING COSTS
- MODULAR SYSTEM
- USER – FRIENDLY INTERFACE
- SETTINGS VIA OPERATING PANEL OR PC

- Efficiency up to 95%, power factor $\cos \varphi \sim 1$
- Active PFC and soft-start
- Verification of connected battery
- Possibility to use one charger for more different batteries
- Possibility to set up preset and custom charging curves
- High resistance to mains disturbances
- Galvanic separated output mains
- Memory for 2.000 charging cycles
- Regeneration charging - desulphation and equalization

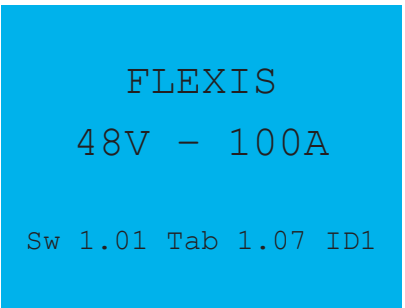
FLEXIS is a fully programmable, high-frequency traction battery charger. FLEXIS optimizes charging technology prolongs the working life of the battery, accelerates charging and saves energy. FLEXIS charger meets the hard requirements of three-shift service in industrial areas.

SIGNALING DISPLAY

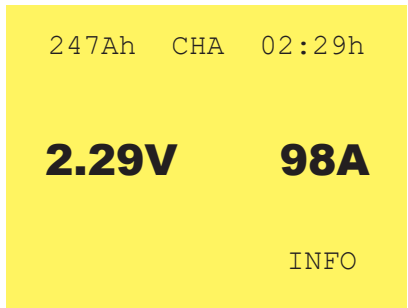


Operating panel allows to set parameters of charging – charging is adjusted to the values of battery.

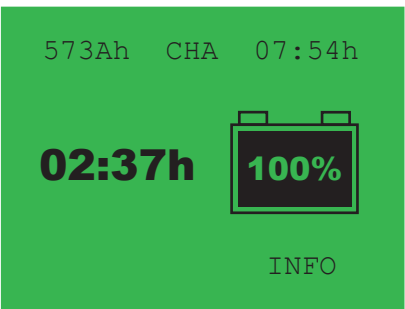
- Operating conditions are signaled by change of colour of the display important values are displayed
- Display is big and bright, all charging stages are visible from long distance and different angles
- Display shows estimated duration of the charging cycle



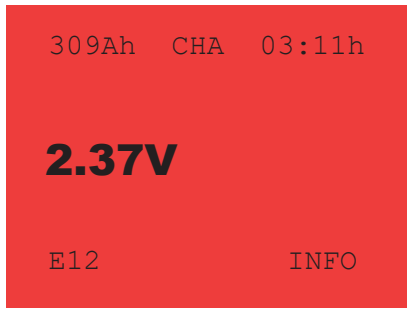
Standby mode



Charging



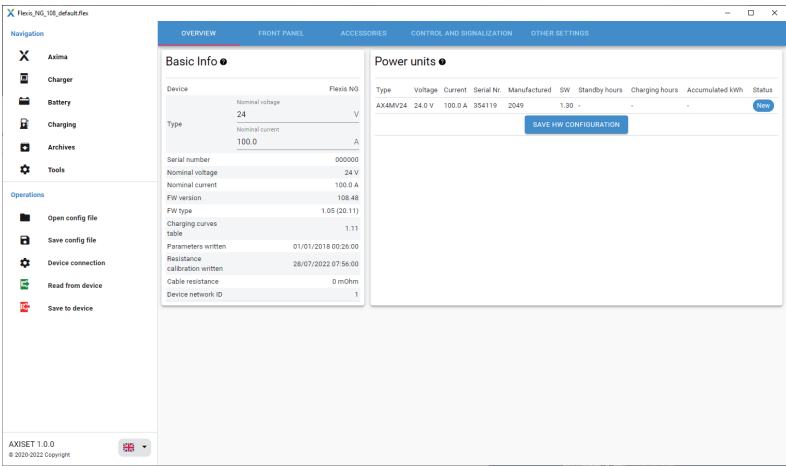
Charging finished



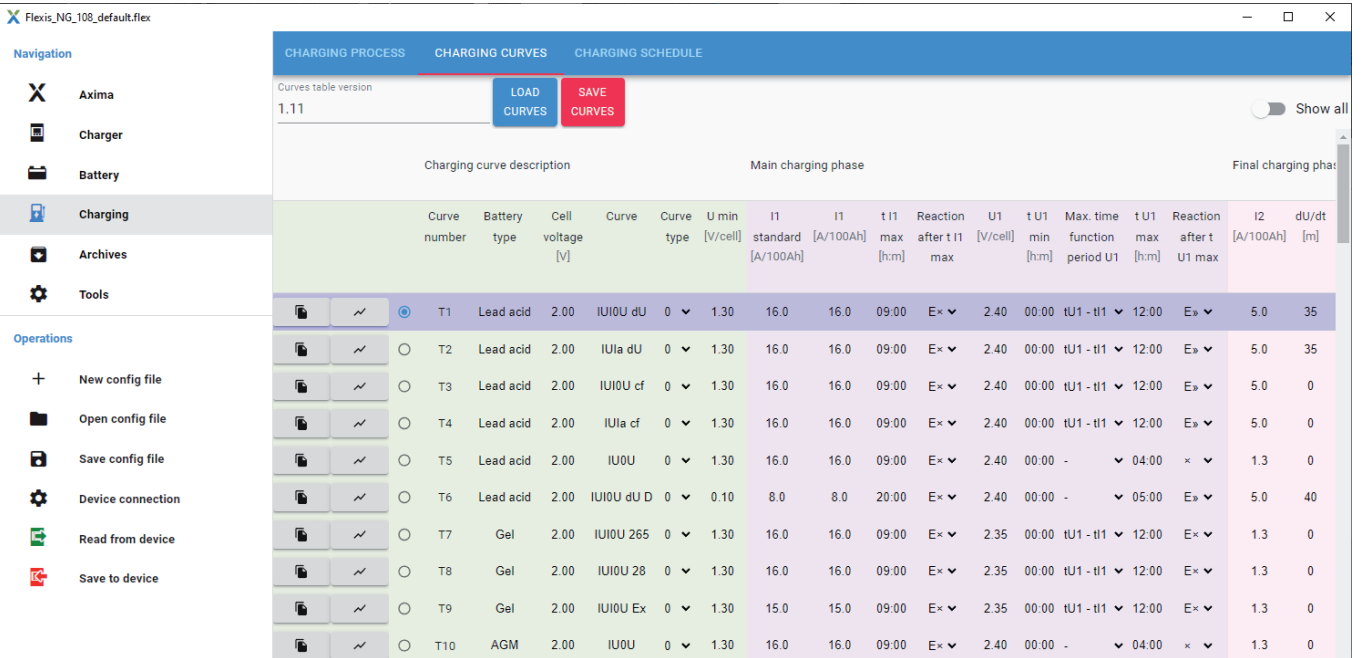
Error

CONFIGURATION SOFTWARE

- User friendly and intuitive configuration programme
- Fully adjustable charging current and voltage
- Possibility to use one charger for plenty of different batteries by manual selection
- Setting opportunity charging
- Time schedule of charging

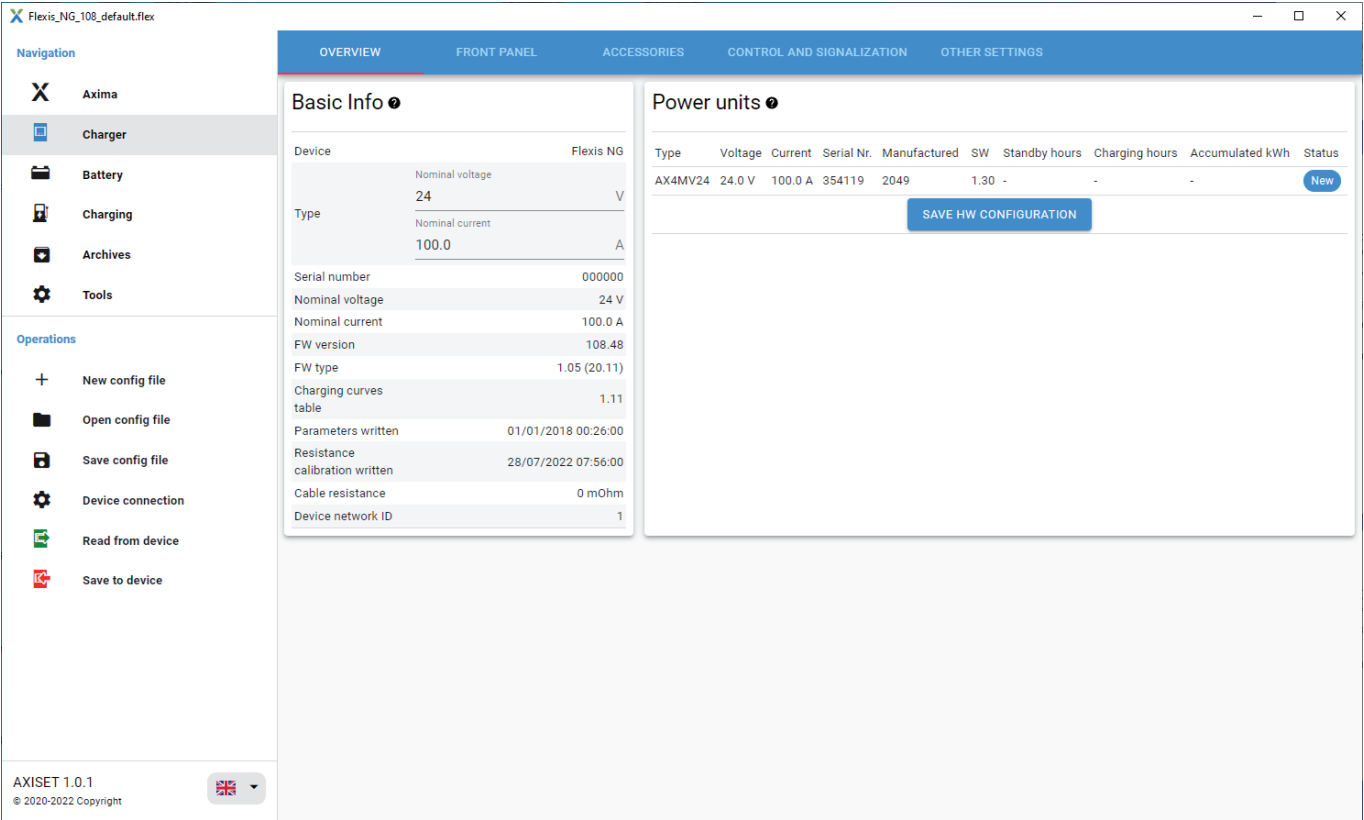
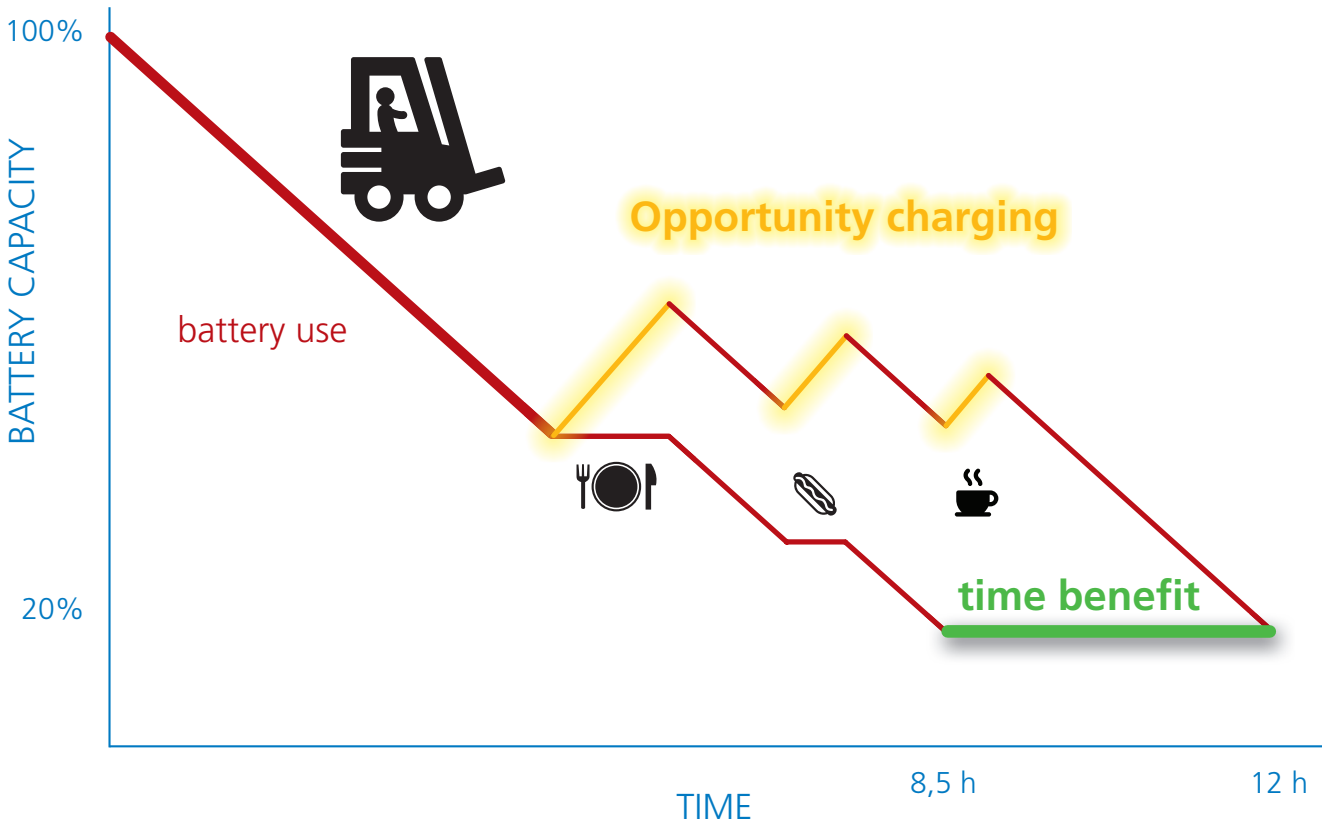


Back **analysis** of charging archive optimises operating costs, helps to save electrical energy and prolongs working life of battery



Opportunity charging is a way of fast battery charging by higher current than common charging. During a few short and intensive charging cycles, the time of battery service is significantly longer. Working breaks are used for opportunity charging to substantially prolong the forklift worktime without a battery exchange. This way of charging minimizes downtime in operation and increases your material handling fleet effectiveness.

- Precise setting of the charging parameters ensures an optimal care of the battery
- Selection from the preset charging curves
- Possibility to modify extra charging curves to suit every type of battery
- Periodical regeneration – makes care of batteries easier



CHARGER TYPES

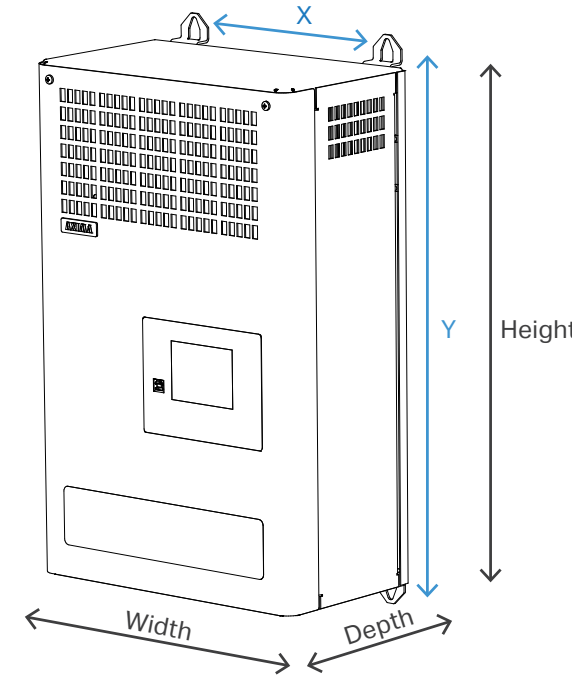
Output voltage (V)	Output current (A)	Mains (VAC)	Input current (A)	Mains (A)	Input Power (VA)	Case with air pump	Case without air pumpí	Type	Charging time / Battery capacity (Ah max.)					Weight (kg)	
									with air pump		without air pump		gel	with air pump	without air pump
									6h	8h	8h	10h	10h		
24	60	230	8,7	10	1950	FF170	FF170	FLEXIS 24E60	308	462	423	571	316	18	16
	100	230	14,1	16	3250	FF170	FF170	FLEXIS 24E100	513	769	704	952	526	18	16
	100	3 x 400	4,9	6	3390	FF170	FF170	FLEXIS 24D100	513	769	704	952	526	19	17
	200	3 x 400	9,8	10	6780	FF250	FF250	FLEXIS 24D200	1026	1538	1408	1905	1053	27	25
	300	3 x 400	14,7	16	10170	FF550	FF550	FLEXIS 24D300	1539	2307	2112	2856	1578	40	38
	400	3 x 400	19,6	20	13560	FF550	FF550	FLEXIS 24D400	2052	3076	2816	3808	2104	57	55
48	50	230	14,1	16	3250	FF170	FF170	FLEXIS 48E50	256	385	352	476	263	19	17
	50	3 x 400	4,9	6	3390	FF170	FF170	FLEXIS 48D50	256	385	352	476	263	20	18
	100	3 x 400	8,0	10	5550	FF170	FF170	FLEXIS 48D100	469	704	644	871	482	22	20
	150	3 x 400	12,9	16	8940	FF250	FF250	FLEXIS 48D150	726	1088	996	1348	745	30	28
	200	3 x 400	16,0	20	11100	FF250	FF250	FLEXIS 48D200	938	1408	1289	1743	963	32	30
	250	3 x 400	20,9	25	14490	FF330	FF330	FLEXIS 48D250	1194	1793	1641	2219	1226	40	38
	300	3 x 400	24,0	25	16650	FF550	FF550	FLEXIS 48D300	1407	2112	1932	2616	1446	48	46
	350	3 x 400	28,9	32	20040	FF550	FF550	FLEXIS 48D350	1663	2497	2284	3092	1709	65	63
80	400	3 x 400	32,0	32	22200	FF550	FF550	FLEXIS 48D400	1876	2816	2576	3484	1928	62	60
	25	230	14,1	16	3250	FF250	FF170	FLEXIS 80E25	128	192	176	238	132	20	16
	25	3 x 400	4,9	6	3390	FF250	FF170	FLEXIS 80D25	128	192	176	238	132	21	17
	50	3 x 400	8,0	10	5550	FF250	FF170	FLEXIS 80D50	256	385	352	476	263	24	20
	75	3 x 400	12,9	16	8940	FF330	FF250	FLEXIS 80D75	385	577	528	714	395	32	28
	100	3 x 400	16,0	20	11100	FF330	FF250	FLEXIS 80D100	513	769	704	952	526	34	30
	125	3 x 400	20,9	25	14490	FF550	FF330	FLEXIS 80D125	641	962	880	1190	658	45	39
	150	3 x 400	24,0	32	16650	FF550	FF330	FLEXIS 80D150	769	1154	1056	1429	789	47	41
	175	3 x 400	28,9	32	20040	FF550	FF550	FLEXIS 80D175	897	1346	1232	1667	921	56	52
	200	3 x 400	32,0	32	22200	FF550	FF550	FLEXIS 80D200	1026	1538	1408	1905	1053	58	55
	225	3 x 400	36,9	40	25590	FF720	FF720	FLEXIS 80D225	1154	1731	1585	2143	1184	67	63
	250	3 x 400	40,0	40	27750	FF720	FF720	FLEXIS 80D250	1280	1925	1760	2380	1315	78	74
	275	3 x 400	44,9	50	31140	FF720	FF720	FLEXIS 80D275	1408	2117	1936	2618	1447	85	81
	300	3 x 400	48,0	50	33300	FF720	FF720	FLEXIS 80D300	1536	2310	2112	2856	1578	87	83
220	400	3 x 400	64,0	80	44400	FF1000	FF1000	FLEXIS 80D400	2048	3080	2816	3808	2104	135	131
	24	3 x 400	8,0	10	5550	FF250	FF170	FLEXIS 220D24	123	184	169	228	127	24	20
	48	3 x 400	16,0	16	11100	FF330	FF250	FLEXIS 220D48	246	368	338	456	254	34	30
	72	3 x 400	24,0	24	16650	FF550	FF330	FLEXIS 220D72	369	552	507	684	381	45	41
	96	3 x 400	32,0	32	22200	FF550	FF550	FLEXIS 220D96	492	736	676	912	508	59	55
	120	3 x 400	40,0	40	27750	FF720	FF720	FLEXIS 220D120	615	920	845	1140	635	70	66
	144	3 x 400	48,0	50	33300	FF720	FF720	FLEXIS 220D144	738	1104	1014	1368	762	79	75
400	192	3 x 400	64,0	80	44400	FF1000	FF1000	FLEXIS 220D192	861	1288	1183	1596	889	136	132
	12	3 x 400	8,0	10	5550	FF250	FF170	FLEXIS 400D12	61	92	84	114	63	24	20
	24	3 x 400	16,0	16	11100	FF330	FF250	FLEXIS 400D24	122	184	168	228	126	34	30
	36	3 x 400	24,0	25	16650	FF550	FF330	FLEXIS 400D36	183	276	252	342	189	44	40
	48	3 x 400	32,0	32	22200	FF550	FF550	FLEXIS 400D48	244	368	336	456	252	59	55
	60	3 x 400	40,0	40	27750	FF720	FF720	FLEXIS 400D60	305	460	420	570	315	78	74
	72	3 x 400	48,0	50	33300	FF720	FF720	FLEXIS 400D72	366	552	504	684	378	87	83

Efficiency	up to 94%
Output voltage stability	± 1%
Cooling	forced ventilation
Degree of protection	IP20
Operating conditions	-10°C to +40°C
Protection class	I
Standards	EN 61000-6-2 EN 61000-6-4 EN 62368-1

Dimensions for mounting on a vertical surface

Case	Width	Height	Depth	X	Y
FF170	302	477	169	230	515
FF250	302	477	254	230	515
FF330	302	477	339	230	515
FF550	547	477	339	499	515
FF720	717	477	339	699	515
FF1000	990	790	380	floor stand	

Dimensions in millimetres [mm]
X and Y are positions of mounting holes



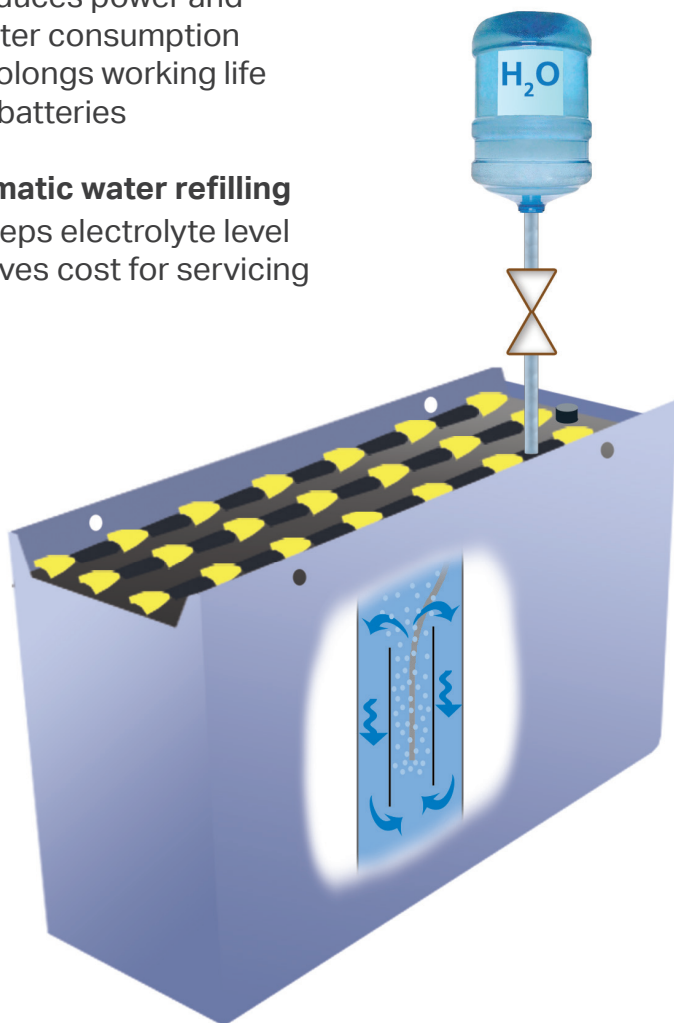
OPTIONAL EQUIPMENT

Air electrolyte circulation

- reduces charging time
- reduces power and water consumption
- prolongs working life of batteries

Automatic water refilling

- keeps electrolyte level
- saves cost for servicing



Battery identification module AXIM

- one charger for more batteries



Temperature sensor

- compensation of charging voltage according to battery temperature



External signaling

- outputs for signal column
- 3 potential-free contacts for signaling

Remote control

- 2 digital inputs for remote control