

MULTIFUNCTIONAL BATTERY CHARGER

Programmable, high-frequency modular charger of traction batteries







INTELIGENT CHARGING

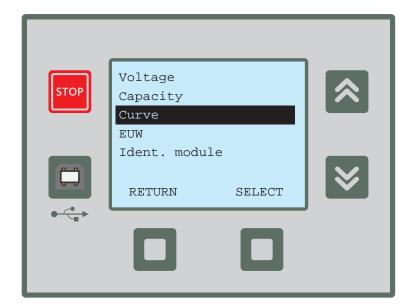


NEW FEATURES:

- OPPORTUNITY CHARGING
- TIME SCHEDULE CHARGING
- AUTOMATIC ASSIGNMENT OF BATTERY VOLTAGE AND CAPACITY
- ESTIMATED TIME TO THE END OF CHARGING CYCLE
- SAVES EXPENSES FOR OPERATING
- MODULAR SYSTEM
- USER FRIENDLY SETTING OF PARAMETERS VIA OPERATING PANEL OR PC
- Efficiency up to 94%, power factor $\cos \varphi \sim 1$
- Active PFC and softstart
- Verification of connected battery
- Possibility to use one charger for more different batteries
- Possibility to set up preset and custom charging curves
- High resistence to mains disturbances
- Galvanic separated output mains
- Memory for 2.000 charging cycles
- Regeneration charging desulphation and equalization

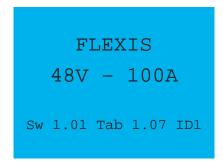
FLEXIS is fully programmable, high-frequency traction battery charger. FLEXIS optimised charging technology prolongs working life of battery, accelerates charging and saves energy. FLEXIS charger meets hard requirements of three-shift service in industrial areas.

BRIGHT TFT DISPLAY

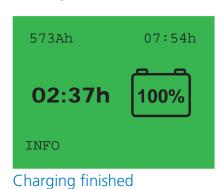


Operating panel allows to set parameters of charging – charging is adjusted to the values of battery.

- Operating conditions are signalized by change of colour of the display all important values are displayed
- Display is sizable, all charging stages are visible from long distance
- Display shows estimated duration of the charging cycle



Standby mode



247Ah CHA 02:29h

2.29v
98A

INFO

Charging



Error

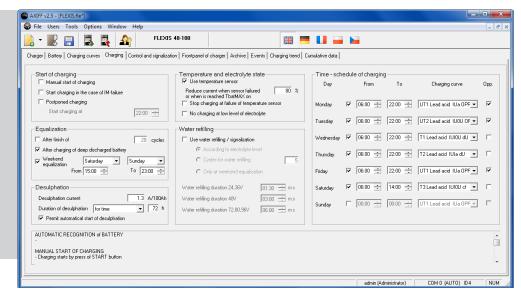




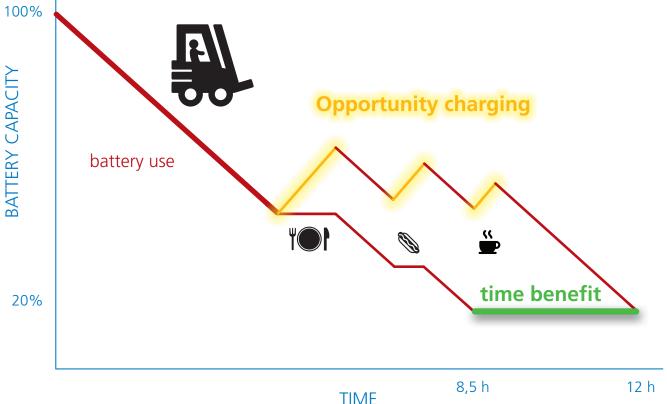
CONFIGURATION PROGRAMME FOR DETAILED SETTING OF THE CHARGER VIA PC

OPTIMAL SETTING OF THE CHARGER

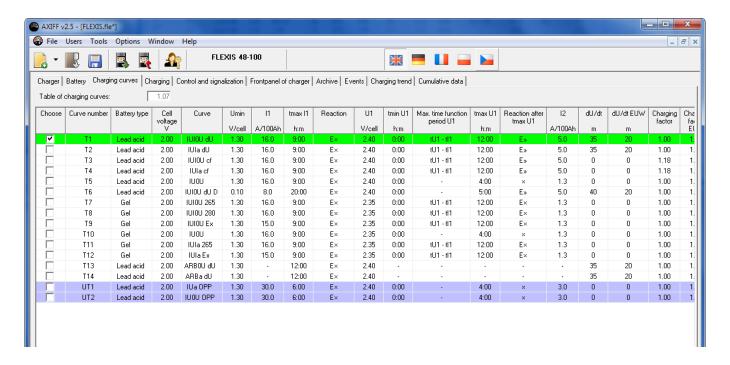
- User friendly and intuitive configuration programme
- Fully adjustable charging current and voltage
- Possibility to use one charger for plenty of different batteries by manual selection
- Setting opportunity charging
- Time schedule of charging



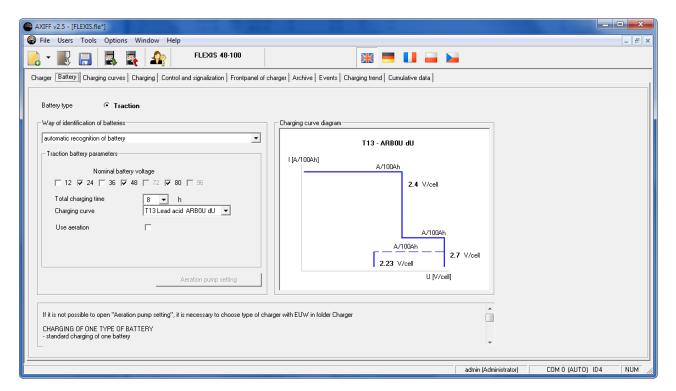
Opportunity charging is a way of fast battery charging by higher current than common charging. During a few short and intensive charging cycles the time of battery service is significantly longer. Working breaks are used for opportunity charging so it permits substantially prolong the forlikt worktime without battery change. This way of charging minimizes downtime in operation and does your material handling fleet more effective.



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



- Exact setting of charging parameters ensures perfect care of battery
- Selection from preset charging curves
- Possibility to modify extra charging curves adequate to exact battery types
- Periodical regeneration makes care of batteries easier

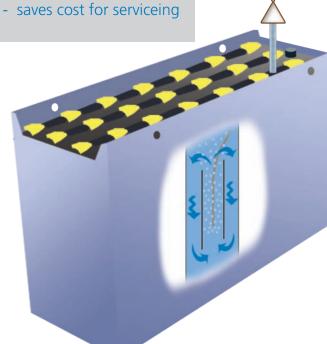






OPTIONAL EQUIPEMENT

- Air electrolyte circulation
 - reduces charging time
 - reduces power and water consumption
 - prolongs working life of batteries
- Automatic water refilling
 - keeps electrolyte level





- External signaling
 - outputs for signal column
 - 3 potential-free contacts for signaling
- Remote control
 - 2 digital inputs for remote control

- Battery identification module AXIM
 - one charger for more batteries

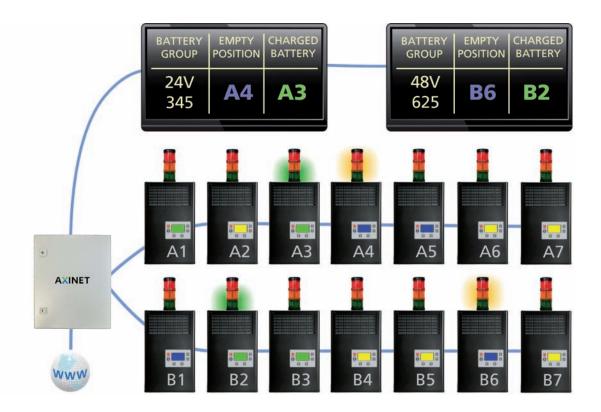


- Temperature sensor
 - compensation of charging voltage according to battery temperature

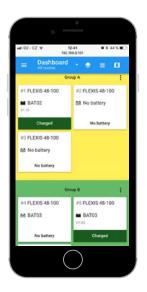




CHARGER MANAGEMENT SYSTEM for effective charging station



AXINET is a system that optimizes the operation of charging stations using chargers from the FLEXIS series. The system connects individual chargers into groups according to their batteries and evaluates their condition. The AXInet system increases usability of batteries and chargers, thus reducing operating costs to the minimum. The AXInet data network system can connect up to 255 FLEXIS chargers and thereby acquire an overview of the condition and utilization of the operation.



- **Smart web app**
- Battery return place assigning, charged battery indication
- **Identification** of batteries, personnel and forklifts
- Sending **reports** via e-mail
- Clear visualization of individual charging points
- **Archive** of charging cycles
- **Statistics** for battery usage and operations
- Remote access via LTE



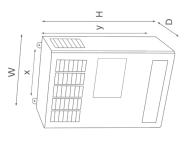




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Other types on request. Battery capacity values in the table according to IUIa dU charging curve.

Output	Output		Input	Mains	Case	Case		Cha	rging tir (me / Batte (Ah max.)	Charging time / Battery capacity (Ah max.)	city	Weigh	Weight (kg)
voltage (V)	current (A)	(VAC)	current (A)	protection (A)	with air pump	without air pump	Туре	with air pump	n air np	without air pump	ut air np	gel	with	without
								49	8h	8h	10h	10h	dwnd	dwnd
	09	230	8,7	10	FF170	FF170	FLEXIS 24E60	308	462	423	571	316	15	13
7	100	230	14,1	16	FF170	FF170	FLEXIS 24E100	513	692	704	952	526	15	13
74	100	3 × 400	4,9	9	FF170	FF170	FLEXIS 24D100	513	692	704	952	526	16	14
	200	3 × 400	8,6	10	FF250	FF250	FLEXIS 24D200	1026	1538	1408	1905	1053	26	25
	20	230	14,1	16	FF170	FF170	FLEXIS 48E50	256	385	352	476	263	15	13
	20	3 × 400	4,9	9	FF170	FF170	FLEXIS 48D50	256	385	352	476	263	16	14
48	100	3 × 400	8,0	10	FF170	FF170	FLEXIS 48D100	469	704	644	871	482	20	18
	150	3 × 400	12,9	16	FF250	FF250	FLEXIS 48D150	726	1088	966	1348	745	28	27
	200	3 × 400	16,0	20	FF250	FF250	FLEXIS 48D200	938	1408	1289	1743	896	31	30
	25	230	14,1	16	FF250	FF170	FLEXIS 80E25	128	192	176	238	132	16	13
	25	3 x 400	4,9	9	FF250	FF170	FLEXIS 80D25	128	192	176	238	132	17	14
	20	3 x 400	8,0	10	FF250	FF170	FLEXIS 80D50	256	385	352	476	263	20	17
	75	3 x 400	12,9	16	FF330	FF250	FLEXIS 80D75	385	577	528	714	395	30	26
*	100	3 x 400	16,0	20	FF330	FF250	FLEXIS 80D100	513	692	704	952	526	32	28
00	125	3 x 400	20,9	25	FF550	FF330	FLEXIS 80D125	641	962	880	1190	658	42	37
	150	3 x 400	24,0	32	FF550	FF330	FLEXIS 80D150	692	1154	1056	1429	789	45	40
	175	3 x 400	28,9	32	FF550	FF550	FLEXIS 80D175	897	1346	1232	1667	921	54	49
	200	3 x 400	32,0	40	FF550	FF550	FLEXIS 80D200	1026	1538	1408	1905	1053	99	52
	225	3 x 400	36,9	40	FF720	FF720	FLEXIS 80D225	1154	1731	1585	2143	1184	65	63



Case	Dime	Dimension (mm)	nm)	Fastening hole spacing (mm)	Fastening holes spacing (mm)
	I	>	D	×	y
FF170	477	302	169	230	515
FF250	477	302	254	230	515
FF330	477	302	339	230	515
FF550	477	547	339	499	515
FF720	477	717	339	699	515

up to 94%	y ± 1%	forced ventilation	IP20	-10°C to +40°C	-	EN 61000-6-2 EN 61000-6-4 EN 60950-1
Efficiency	Output voltage stability	Cooling	Degree of protection	Operating conditions	Protection class	Standards

AX	.	



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* Intended also for 96V and 110V Batterie

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