

FLEXELLENT[®]

MULTIFUNCTIONAL BATTERY CHARGER

Conventional Charger
Opportunity Charger
Fast Charger
ALL-IN-ONE

- *Automatic battery voltage & capacity recognition*
- *Optimized charging of all lead-acid & lithium batteries*
- *Fully programmable*
- *Super-efficient HF modular technology*
- *Soft start & active PFC: NO high start current*
- *Auto regeneration charge, de-sulphation & equalizing charge*
- *Remote monitoring available*



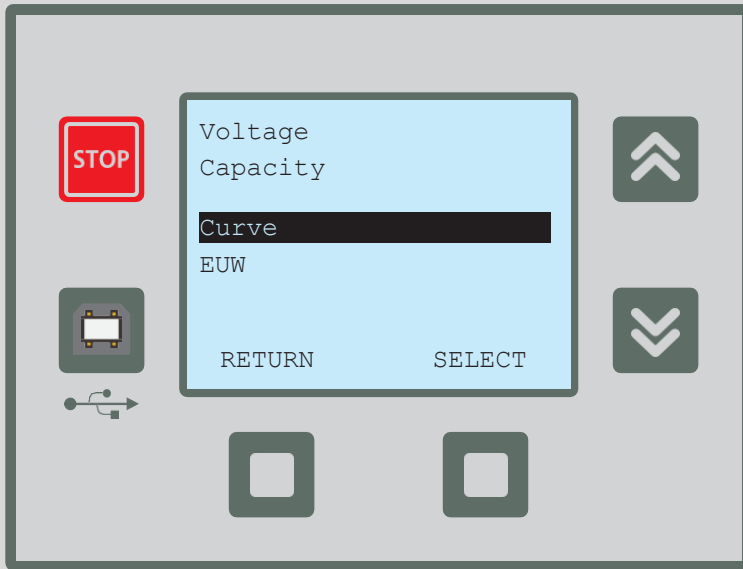
SMARTEST TECHNOLOGY:
**ONE CHARGER FOR
DIFFERENT FORKLIFT BATTERIES**

- ✓ *prolongs the service life of your batteries*
- ✓ *up to 3X faster charging*
- ✓ *lower watering & maintenance costs*
- ✓ *38% lower energy bills are commonly reported*
- ✓ *obsolescence savings thanks to flexibility*
- ✓ *meets requirements for 3 shift operation for charging Industrial Electric Vehicles*



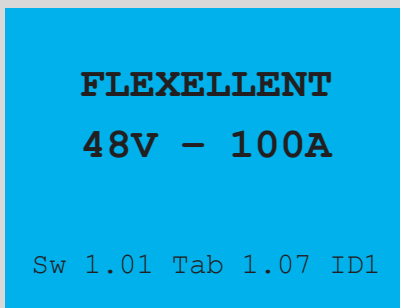
SIGNALING DISPLAY

FLEXELLENT
MULTIFUNCTIONAL
BATTERY CHARGER

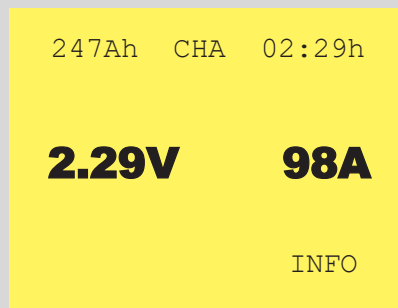


Operating panel allows to set parameters of charging – charging is adjusted to the values of battery.

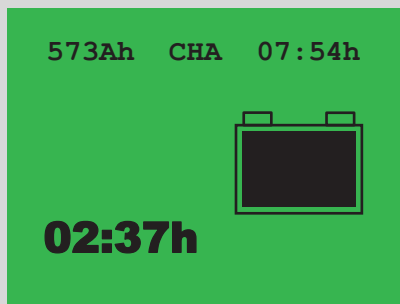
- Operating conditions are signaled by change of color of the display important values are displayed
- Display is big and bright; all charging stages are visible from long distance and different angles
- Display shows estimated duration of the charging cycle



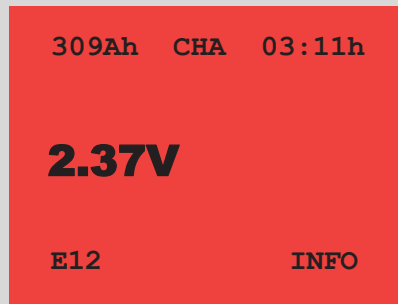
Standby mode



Charging



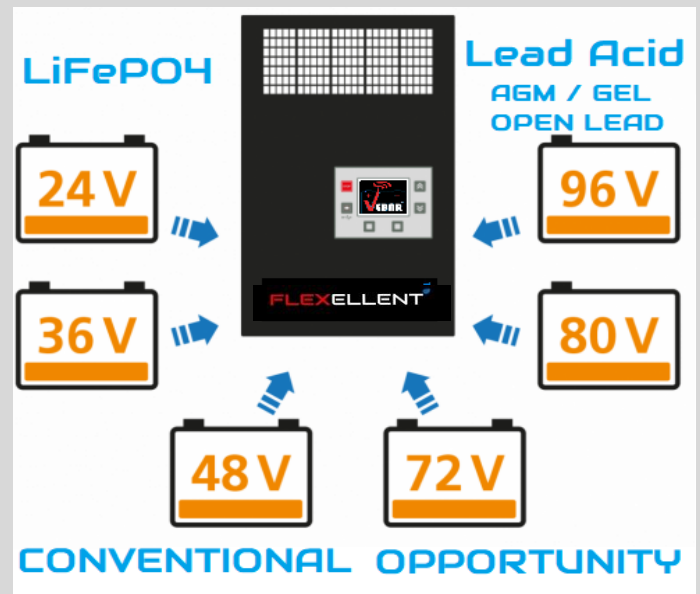
Charging finished



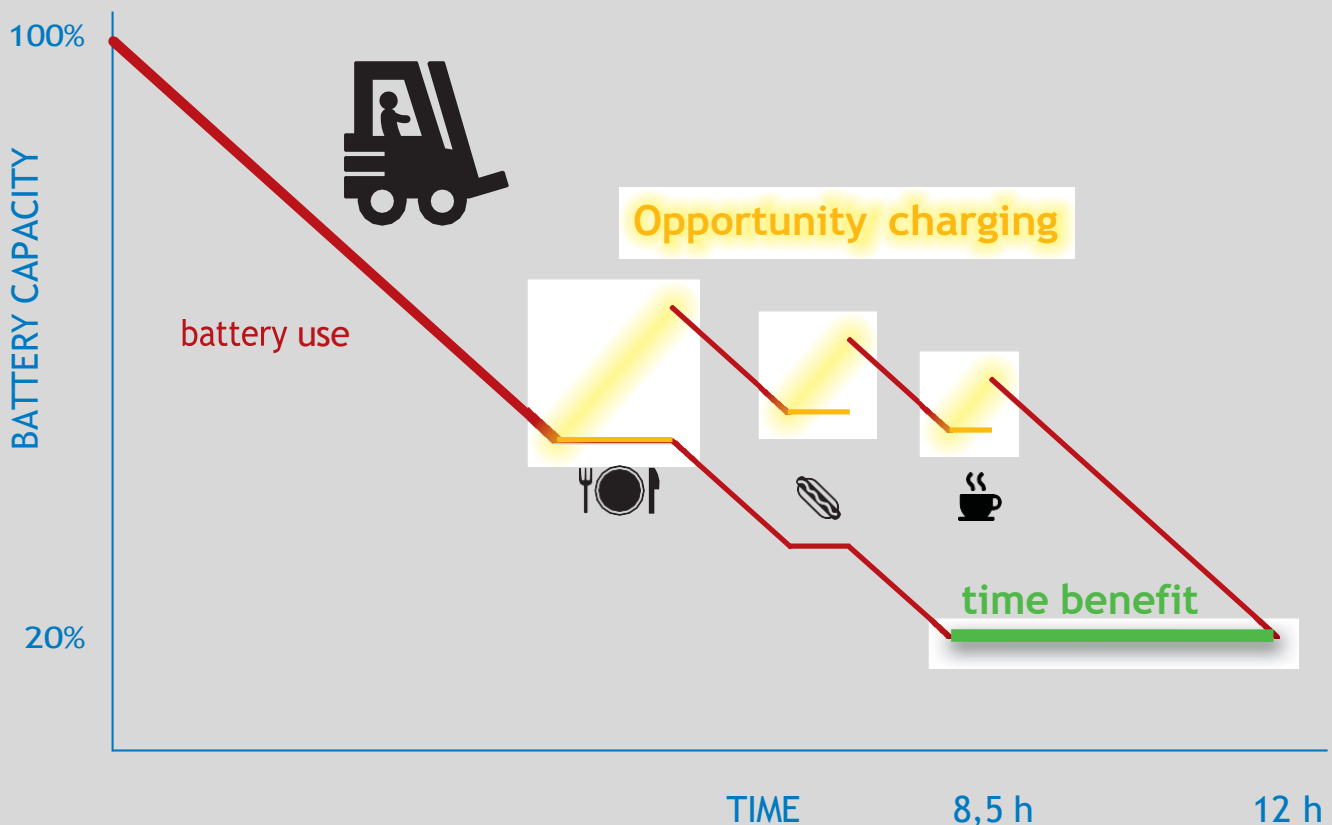
Error



- User friendly and intuitive configuration program
- Fully adjustable charging current and voltage
- Possibility to use one charger for many different batteries by manual or auto selection
- Setting to opportunity charging
- Time scheduled charging



Opportunity charging Is a way of intermediate battery charging, using a special charging algorithm that can only be achieved by intelligent battery chargers with very specific settings. Only then can working breaks be used for opportunity charging to substantially increase the forklift runtime without the need for a battery change. The Flexellent charge offers this way of charging that minimizes downtime and increases your fleet's utilization.



OPTIONAL EQUIPMENT

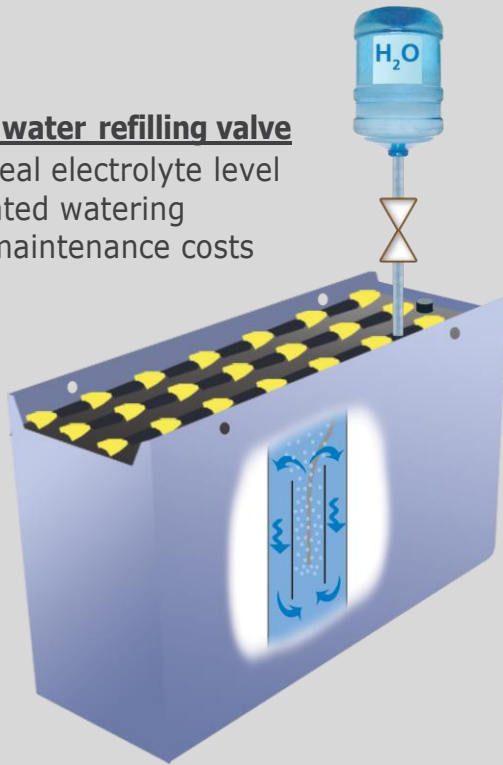


Air pump – forced electrolyte circulation

- reduces charging time
- reduces power- and water consumption

Automatic water refilling valve

- keep ideal electrolyte level
- automated watering saves maintenance costs



Temperature sensor



Added inputs/outputs board:

- offers extra 3 potential-free contacts for signaling
- offers 2 digital inputs for remote control
- offers connection for light tower

External signaling – light tower:

- connects to charger’s added board

Remote control:

- connects to 2 digital inputs available from added board

Wireless Battery Sensor

- Intelligent wireless monitoring & messaging system
- Automated data collection & web-connected reporting



On-site wireless info screen

- FIFO battery organizing
- On-site maintenance info (watering, T°, ...)

Best available batteries								
op opc	hr B	su old	sd B	su opc	op sm	sd 48	hr sm	hr opc
601	20-277	365	420	19-522	620	20-713		18-281
600	21-258	350	418	19-516		21-716		253
611	20-257	354	22-702	308		18-705		276
19-260	21-291	366		19-524				283

BATTERIES THAT NEED WATER							
001	002	003	004	005	006	007	
	018	073					
	122						
	087						



CHARGER TYPES

FLEXELLENT

**MULTIFUNCTIONAL
BATTERY CHARGER**

Nominal output voltage (V)	Output current (A)	FLEXELLENT Model Nr. Battery Capacity for Charge time 6-8 H	Case	Weight (lb.)	Recommended circuit breaker (A)	Input current at rated voltage 480V(A)
24	100	24U100 100Ah - 800Ah	FF170	49	6	4,2
	200	24U200 100Ah - 1500Ah	FF250	73	10	8,4
	300	24U300 100 - 24	FF330	97	16	12,6
36 / 48	100	48U100 100Ah - 800Ah	FF170	49	10	6,8
	200	48U200 100Ah - 1500Ah	FF250	73	16	13,6
	300	48U300 100Ah - 2400Ah	FF330	97	25	20,4
80	50	80U50 100Ah - 400Ah	FF170	49	10	6,8
	100	80U100 100Ah - 800Ah	FF250	73	16	13,6
	150	80U150 100Ah - 1200Ah	FF330	97	25	20,4

Technical parameters	see product label
Supply voltage	3~480V +15% / -15% 50/60Hz
Input fuse	3 pole Type C or D circuit breaker
Efficiency	up to 95%
Appliance class	I
Pollution degree	2
Charger protection / after opening	IP20 / IP00

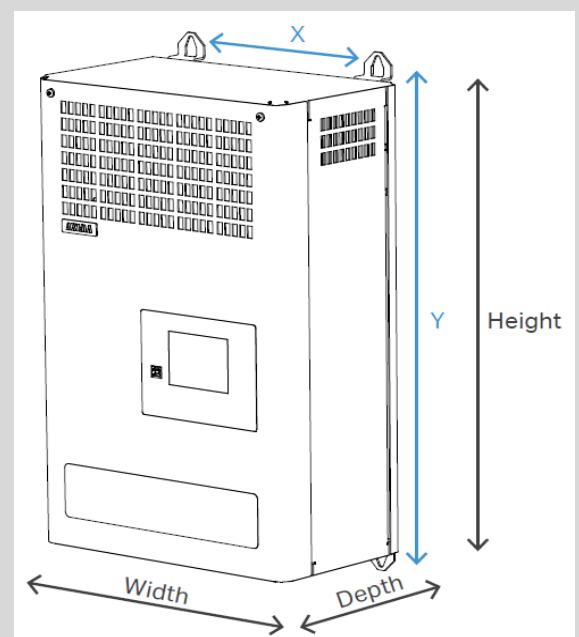
Isolation voltage in - ouput	4,2 kV DC
Output voltage tolerance	±1%
Output current tolerance	±1%
Safety	UL 1564 C22.2. No. 107.2.-01 EN 62368-1
Electromagnetic compatibility (EMC)	FCC PART 15, CLASS A ICES-003 CLASS A
Operating environment	14°F to 104°F, max.rel.humidity 80%, non-condensing
Storage	in dry conditions -13°F to +176°F max. rel. humidity 80%, non-condensing

Dimensions for mounting on a vertical surface

Case	Width	Height	Depth	X	Y
FF170	11.9	18.8	6.7	9.1	19.9
FF250	11.9	18.8	10.0	9.1	19.9
FF330	11.9	18.8	13.4	9.1	

Dimensions in inches

X and Y are positions of mounting holes



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