



POWER

FLEXTHIUM

LITHIUM BATTERY CHARGER

excellent power for lithium traction batteries

www.axima-power.com



LITHIUM BATTERY CHARGING



FLEXTHIUM

a high-efficiency charger developed especially for lithium traction batteries. It includes all needed equipment necessary for CAN communication between the battery and the charger and enables charging.

Communication with BMS

BMS communication protocols are possible to integrate into the FLEXTHIUM charger firmware on request.

Lithium battery types:

- LFP – LiFePO_4
- LTO – $\text{Li}_4\text{Ti}_5\text{O}_{12}$
- NCA – (LiNiCoAlO_2)
- Li – ion
- Li – pol

STANDARD EQUIPMENT

FLEXTHIUM CHARGER

charger with CAN communication protocol

FLEXIS EXT UNIT

extension board

AXI FF CAN

auxiliary contacts for CAN communication

AXIFF PILOT

pilot line contacts for enable charging

OPTIONAL EQUIPMENT



AXIFF LED

External signaling

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

CHARGER TYPES

Output voltage (V)	Output current (A)	Mains (V AC)	Input current (A)	Mains protection (A)	Input power (VA)	Case	Type	Weight (kg)
24	60	1 x 230	8,7	10	1 950	FF170	FLEXTHIUM 24E60	15
	100	1 x 230	14,1	16	3 250	FF170	FLEXTHIUM 24E100	15
	100	3 x 400	4,9	6	3 390	FF170	FLEXTHIUM 24D100	16
	200	3 x 400	9,8	10	6 780	FF250	FLEXTHIUM 24D200	26
	300	3 x 400	14,7	16	10 170	FF330	FLEXTHIUM 24D300	37
	400	3 x 400	19,6	20	13 560	FF550	FLEXTHIUM 24D400	48
48	50	1 x 230	14,1	16	3 250	FF170	FLEXTHIUM 48E50	15
	50	3 x 400	4,9	6	3 390	FF170	FLEXTHIUM 48D50	16
	100	3 x 400	8,0	10	5 550	FF170	FLEXTHIUM 48D100	20
	150	3 x 400	12,9	16	8 940	FF250	FLEXTHIUM 48D150	28
	200	3 x 400	16,0	20	11 100	FF250	FLEXTHIUM 48D200	31
	250	3 x 400	20,9	25	14 490	FF330	FLEXTHIUM 48D250	37
	300	3 x 400	24,0	25	16 650	FF550	FLEXTHIUM 48D300	40
	350	3 x 400	28,9	32	20 040	FF550	FLEXTHIUM 48D350	49
80	400	3 x 400	32,0	40	22 200	FF550	FLEXTHIUM 48D400	58
	25	1 x 230	14,1	16	3 250	FF170	FLEXTHIUM 80E25	16
	25	3 x 400	4,9	6	3 390	FF170	FLEXTHIUM 80D25	17
	50	3 x 400	8,0	10	5 550	FF170	FLEXTHIUM 80D50	20
	75	3 x 400	12,9	16	8 940	FF250	FLEXTHIUM 80D75	30
	100	3 x 400	16,0	20	11 100	FF250	FLEXTHIUM 80D100	32
	125	3 x 400	20,9	25	14 490	FF330	FLEXTHIUM 80D125	42
	150	3 x 400	24,0	25	16 650	FF330	FLEXTHIUM 80D150	45
	175	3 x 400	28,9	32	20 040	FF550	FLEXTHIUM 80D175	54
	200	3 x 400	32,0	32	22 200	FF550	FLEXTHIUM 80D200	56
	225	3 x 400	36,9	40	25 590	FF720	FLEXTHIUM 80D225	65
	250	3 x 400	40,0	40	27 750	FF720	FLEXTHIUM 80D250	74
220	275	3 x 400	44,9	50	31 140	FF720	FLEXTHIUM 80D275	80
	300	3 x 400	48,0	50	33 330	FF720	FLEXTHIUM 80D300	83
	24	3 x 400	8	10	5 550	FF170	FLEXTHIUM220D24	20
	48	3 x 400	16	20	11 100	FF250	FLEXTHIUM220D48	32
	72	3 x 400	24	25	16 650	FF330	FLEXTHIUM220D72	45
	96	3 x 400	32	32	22 200	FF550	FLEXTHIUM220D96	56
	120	3 x 400	40	40	27 750	FF720	FLEXTHIUM220D120	74
	144	3 x 400	48	50	33 330	FF720	FLEXTHIUM220D144	83
168	3 x 400	56	63	38 850	FF1000	FLEXTHIUM220D168	110	
192	3 x 400	64	80	44 400	FF1000	FLEXTHIUM220D192	120	

Output voltage (V)	Output current (A)	Mains (V AC)	Input current (A)	Mains protection (A)	Input power (VA)	Case	Type	Weight (kg)
400	12	3 x 400	8,0	10	5 550	FF170	FLEXTHIUM 400D12	20
	24	3 x 400	16,0	16	11 100	FF250	FLEXTHIUM 400D24	30
	36	3 x 400	24,0	25	16 650	FF330	FLEXTHIUM 400D36	40
	48	3 x 400	32,0	32	22 200	FF550	FLEXTHIUM 400D48	55
	60	3 x 400	40,0	40	27 750	FF720	FLEXTHIUM 400D60	74
	72	3 x 400	48,0	50	33 330	FF720	FLEXTHIUM 400D72	83

Other types on request.

TECHNICAL DATA

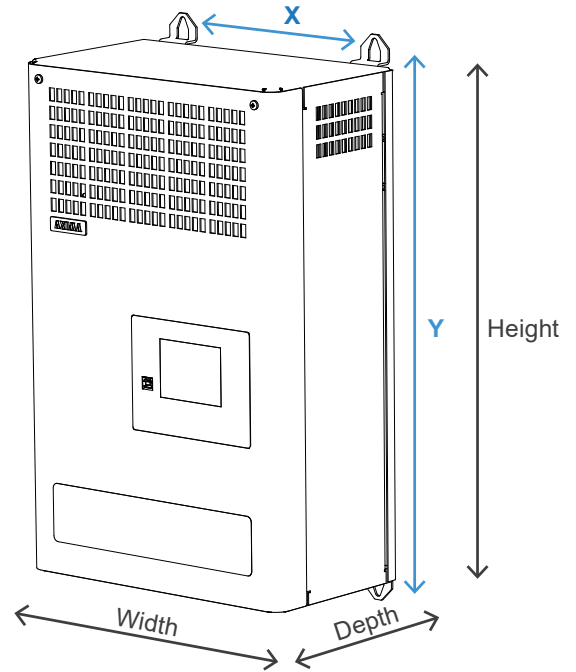
Efficiency	up to 94%
Output voltage stability	± 1%
Cooling	forced ventilation
Degree of protection	IP20
Operating conditions	-10°C to +40°C
Protection class	I
Standards	EN 61000-6-2 EN 61000-6-4 EN 62368-1

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	1006	795	385	950	600


Dimensions in millimetres [mm]


X and Y are positions of mounting holes



 Vídeňská 125, Brno 619 00, CZ

 acdc@axima.cz

 +420 546 418 859

 www.axima-power.com

www.axima-power.com