

Modular HF Chargers

Multi-Volt, Multi-Amp, Auto-Sensing

Optimize efficiency and safety
for your battery fleet.



BENEFITS



**Bluetooth
Compatible.**



**Compact, lightweight
modular design.**



**CAN BUS
communications.**



**Versatile mounting
options.**



**Lower energy
costs!**



Empowering Industries
for 50 Years



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Charging Technologies Inc™
4328 Bridgeton Industrial Drive
Bridgeton, Missouri 63044

HF-MODULAR-SPEC-02012024


**CHARGING
TECHNOLOGIES, INC.**

Modular HF Chargers



LATEST TECHNOLOGY

Discover CTI's Cutting-Edge Charging Solutions. With a wealth of expertise spanning over five decades, we specialize in the effective charging of industrial forklift batteries. Our state-of-the-art High-Frequency Battery Chargers leverage advanced MOSFET technology to deliver superior, enduring performance, supported by our Industry Standard Warranty.

At CTI, our commitment lies in providing unwavering support to logistics firms, grocery supply chains, and retail distribution centers for their charging requirements. What sets us apart is our offering of premium, cost-efficient solutions that outshine competitors. Our high quality, High-Frequency Battery Chargers surpass the performance of larger industry rivals. The Xtreme HF operates at lower temperatures, extending the life of our battery chargers and ensuring proper charge cycles for your industrial batteries.

- ✓ **Efficiency:** Achieve peak power conversion efficiency of 95% power factor and nominal efficiency of 94%, ensuring optimal energy utilization and cost savings.
- ✓ **Intelligent Module Control:** Benefit from auto-load equalization, auto-bypass in the event of module failure, and high-efficiency MOSFET switching for reliable and adaptable battery charging.
- ✓ **Voltage Versatility:** Charge various battery types, including Wet Lead Acid, lithium-Ion, VRLA, and AGM, at voltages from 24-80 VDC, catering to diverse material handling equipment requirements.
- ✓ **User-Friendly Control:** Seamlessly navigate with LCD, keypad, and Bluetooth for quick status checks.
- ✓ **Advanced Communication:** Bluetooth for control, add-on options like CAN Bus, LAN, or WIFI enhance connectivity.



- ✓ **Power factor 95%.**
- ✓ **Peak Efficiency 94.5%.**

CHARGER COMMUNICATION

- Backlit LCD display with soft touch keypad
- Mobile Device, Bluetooth connectivity with downloadable app
- Graphic Icon Display shows charge status at a glance
- 32+ pre-loaded charger algorithms including Lithium
- Wireless communication with TOBi BLuE battery module
- Programmable Start/Stop and Time of Day
- Programmable Equalize by cycle count or day of the week
- Remote equalize and remote stop options capable



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SELECTOR GUIDE - 480 VOLT 3 PHASE

Model Number	Cells	Max DCA	480V ACA	Cabinet	Weight	AH Range		
						Conventional	Opportunity	Fast Charge
24-1B-E3	12	130	4.9	900	60	0 - 865	0 - 520	0 - 325
24-1A1B-E3	12	200	14.0	900	65	781 - 1200	521 - 720	326 - 500
24-2B-E3	12	260	9.8	900	65	1201 - 1700	721 - 1040	501 - 650
24-1A2B-E3	12	300	21.0	900	75	1701 - 2000	1041 - 1250	651 - 750
24-1B-E3Z	12	130	4.9	905	60	0 - 865	0 - 520	0 - 325
24-1A1B-E3Z	12	200	14.0	905	65	781 - 1200	521 - 720	326 - 500
24-2B-E3Z	12	260	9.8	905	65	1201 - 1700	721 - 1040	501 - 650
48-1A-E3	12/18/24	50	2.8	900	60	0 - 330	0 - 200	0 - 125
48-1D-E3	12/18/24	100	7.0	900	60	331 - 660	201 - 500	126 - 250
48-1A1D-E3	12/18/24	150	9.8	900	65	661 - 1000	501 - 600	251 - 375
48-2D-E3	12/18/24	200	14.0	900	65	1001 - 1330	601 - 800	376 - 500
48-1A2D-E3	12/18/24	250	16.8	900	75	1331 - 1660	801 - 1000	501 - 625
48-3D-E3	12/18/24	300	21.0	900	75	1661 - 2000	1001 - 1200	626 - 750
48-1A3D-E3	12/18/24	350	23.8	900	95	2001 - 2330	1201 - 1400	751 - 875
48-4D-E3	12/18/24	400	28.0	900	95	2331 - 2670	1401 - 1600	876 - 1000
48-1A-E3Z	12/18/24	50	2.8	905	60	0 - 330	0 - 200	0 - 125
48-1D-E3Z	12/18/24	100	7.0	905	60	331 - 660	201 - 500	126 - 250
48-1A1D-E3Z	12/18/24	150	9.8	905	65	661 - 1000	501 - 600	251 - 375
48-2D-E3Z	12/18/24	200	14.0	905	65	1001 - 1330	601 - 800	376 - 500
80-1A-E3	36/40	30	2.8	900	60	0 - 200	0 - 120	0 - 75
80-1D-E3	36/40	60	7.0	900	60	201 - 400	121 - 240	76 - 150
80-1A1D-E3	36/40	90	9.8	900	65	401 - 600	241 - 360	151 - 225
80-2D-E3	36/40	120	14.0	900	65	601 - 800	361 - 480	226 - 300
80-1A2D-E3	36/40	150	16.8	900	75	801 - 1000	481 - 600	301 - 375
80-3D-E3	36/40	180	21.0	900	75	1001 - 1200	601 - 720	376 - 450
80-1A3D-E3	36/40	210	23.8	900	95	1201 - 1400	721 - 840	451 - 525
80-4D-E3	36/40	240	28.0	900	95	1401 - 1600	841 - 960	526 - 600
80-1A-E3Z	36/40	30	2.8	905	60	0 - 200	0 - 120	0 - 75
80-1D-E3Z	36/40	60	7.0	905	60	201 - 400	121 - 240	76 - 150
80-1A1D-E3Z	36/40	90	9.8	905	65	401 - 600	241 - 360	151 - 225
80-2D-E3Z	36/40	120	14.0	905	65	601 - 800	361 - 480	226 - 300



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SELECTOR GUIDE - 240 VOLT 3 PHASE

Model Number	Cells	Max DCA	240V ACA	Cabinet	Weight	AH Range		
						Conventional	Opportunity	Fast Charge
24-1B-D3	12	130	11.2	900	60	0 - 865	0 - 520	0 - 325
24-1A1B-D3	12	200	22.4	900	65	781 - 1200	521 - 720	326 - 500
24-2B-D3	12	260	22.4	900	65	1201 - 1700	721 - 1040	501 - 650
24-1A2B-D3	12	300	33.6	900	75	1701 - 2000	1041 - 1250	651 - 750
24-1B-D3Z	12	130	11.2	905	60	0 - 865	0 - 520	0 - 325
24-1A1B-D3Z	12	200	22.4	905	63	781 - 1200	521 - 800	326 - 500
24-2B-D3Z	12	260	22.4	905	63	1201 - 1700	801 - 1040	501 - 650
48-1A-D3	12/18/24	50	5.6	900	60	0 - 330	0 - 200	0 - 125
48-1D-D3	12/18/24	100	11.2	900	60	331 - 660	201 - 500	126 - 250
48-1A1D-D3	12/18/24	150	16.8	900	65	661 - 1000	501 - 600	251 - 375
48-2D-D3	12/18/24	200	22.4	900	65	1001 - 1330	601 - 800	376 - 500
48-1A2D-D3	12/18/24	250	28	900	75	1331 - 1660	801 - 1000	501 - 625
48-3D-D3	12/18/24	300	33.6	900	75	1661 - 2000	1001 - 1200	626 - 750
48-1A3D-D3	12/18/24	350	39.2	900	95	2001 - 2330	1201 - 1400	751 - 875
48-4D-D3	12/18/24	400	44.8	900	95	2331 - 2670	1401 - 1600	876 - 1000
48-1A-D3Z	12/18/24	50	5.6	905	60	0 - 330	0 - 200	0 - 125
48-1D-D3Z	12/18/24	100	11.2	905	60	331 - 660	201 - 500	126 - 250
48-1A1D-D3Z	12/18/24	150	16.8	905	63	661 - 1000	501 - 600	251 - 375
48-2D-D3Z	12/18/24	200	22.4	905	63	1001 - 1330	601 - 800	376 - 500



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SELECTOR GUIDE - 600 VOLT 3 PHASE

Model Number	Cells	Max DCA	600V ACA	Cabinet	Weight	AH Range		
						Conventional	Opportunity	Fast Charge
24-1B-AG3	12	130	4	900	60	0 - 865	0 - 520	0 - 325
24-1A1B-AG3	12	200	22.4	900	65	781 - 1200	521 - 800	326 - 500
24-2B-AG3	12	260	8	900	65	1201 - 1700	801 - 1040	501 - 650
24-1B-AG3Z	12	130	4	905	60	0 - 865	0 - 520	0 - 325
24-1A1B-AG3Z	12	200	22.4	905	63	781 - 1200	521 - 800	326 - 500
24-2B-AG3Z	12	260	8	905	63	1201 - 1700	801 - 1040	501 - 650
48-1A-AG3	12/18/24	50	2.2	900	60	0 - 330	0 - 200	0 - 125
48-1D-AG3	12/18/24	100	5.6	900	60	331 - 660	201 - 500	126 - 250
48-1A1D-AG3	12/18/24	150	7.8	900	65	661 - 1000	501 - 600	251 - 375
48-2D-AG3	12/18/24	200	11.2	900	65	1001 - 1330	601 - 800	376 - 500
48-1A2D-AG3	12/18/24	250	13.4	900	75	1331 - 1660	801 - 1000	501 - 625
48-3D-AG3	12/18/24	300	16.8	900	75	1661 - 2000	1001 - 1200	626 - 750
48-1A3D-AG3	12/18/24	350	19	900	95	2001 - 2330	1201 - 1400	751 - 875
48-4D-AG3	12/18/24	400	22.4	900	95	2331 - 2670	1401 - 1600	876 - 1000
48-1A-AG3Z	12/18/24	50	2.2	905	60	0 - 330	0 - 200	0 - 125
48-1D-AG3Z	12/18/24	100	5.6	905	60	331 - 660	201 - 500	126 - 250
48-1A1D-AG3Z	12/18/24	150	7.8	905	65	661 - 1000	501 - 600	251 - 375
48-2D-AG3Z	12/18/24	200	11.2	905	65	1001 - 1330	601 - 800	376 - 500
80-1D-AG3	36/40	60	5.0	900	60	0-400	0-240	0-150
80-2D-AG3	36/40	120	10.0	900	65	401-800	241-480	151-300
80-3D-AG3	36/40	180	15.0	900	75	801-1200	481-720	301-450
80-4D-AG3	36/40	240	20.0	900	95	1201-1600	721-960	451-600
80-1D-AG3Z	36/40	60	5.0	905	60	0-400	0-240	0-150
80-2D-AG3Z	36/40	120	10.0	905	65	401-800	241-480	151-300



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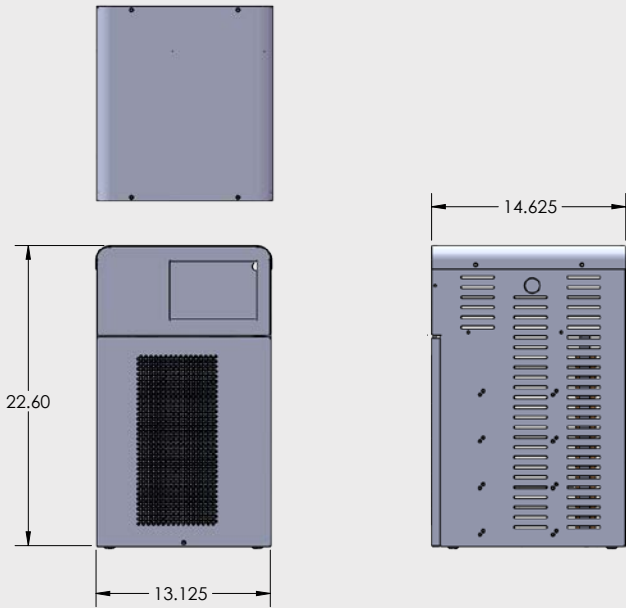
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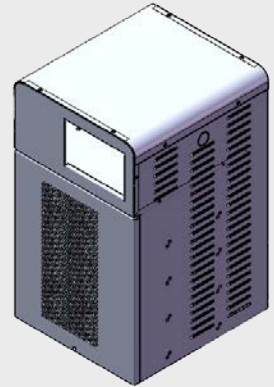
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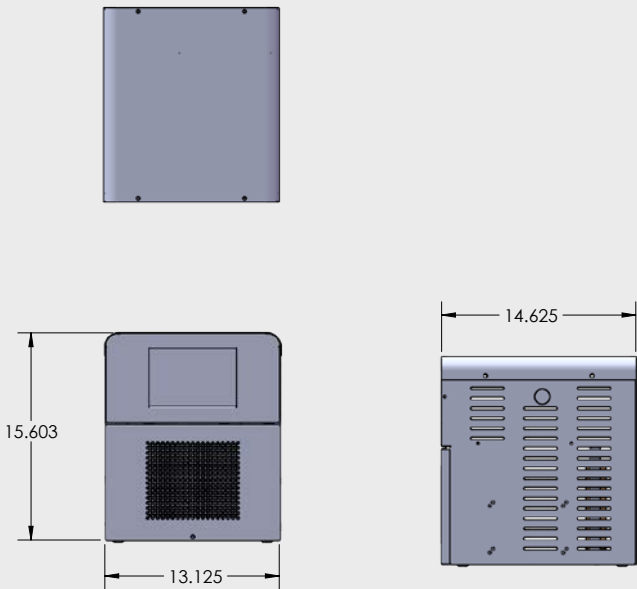
SELECTOR GUIDE - 480, 240 & 600 VOLT 3 PHASE



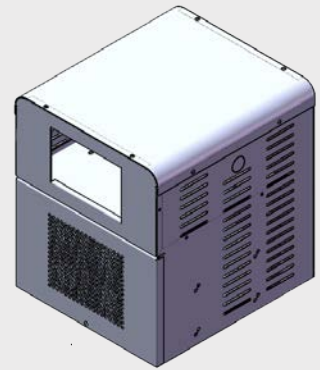
CASE 900



CASE DIMENSIONS FOR 900						
CASE	HEIGHT		WIDTH		DEPTH	
	IN	CM	IN	CM	IN	CM
900	22.6	66.04	13.13	33.34	14.63	37.15



CASE 905



CASE DIMENSIONS FOR 905						
CASE	HEIGHT		WIDTH		DEPTH	
	IN	CM	IN	CM	IN	CM
905 Z	15.6	39.64	13.13	33.34	14.63	37.15



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SELECTOR GUIDE - 480, 240 & 600 VOLT 3 PHASE



CHARGER FLOOR STAND WITH CABLE MANAGEMENT

- Heavy duty construction
- Mounting holes for Ferro 501, 551 & 701 (HF) charger cabinets
- Cable management mounting hole (POGO)
- Floor anchor holes
- Safety Yellow
- Shelf size 27³/₄" wide x 26" deep
- Ships KD for field assembly
- Charger Stand Pt # 038-424 Shelf Width 27³/₄" x Depth 26" x Height 28"
- Pogo Pt #019-353

CHARGER POLE STAND WITH CABLE MANAGEMENT

- Heavy duty construction
- Rated to hold #500
- Cable management mounting hole (POGO)
- Floor anchor holes
- Ships KD for field assembly
- #038-498 Holds 1-2 chargers
- #038-499 Holds 1-4 chargers



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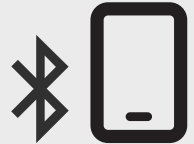


SELECTOR GUIDE - 480, 240 & 600 VOLT 3 PHASE



CHARGER COMMUNICATION

- P46-305 Control
- Wireless
- Communication from charger to computer.



BATTERY COMMUNICATION

- TOBi PI BLuE
- Communication between battery and charger and battery and computer.



For a Future of Efficient Charging, Contact Us Today!
Experience the Xtreme difference—powering your fleet, empowering your business!



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