

HIGH-FREQUENCY LITHIUM-ION BATTERY CHARGERS

OPTIMIZE UPTIME AND MAXIMIZE SAVINGS WITH
INNOVATIVE, MODULAR CHARGING SOLUTIONS

Take advantage of the enhanced performance and productivity of today's lithium-ion forklift batteries with scalable, modular, high-frequency chargers from Energy Essentials Distributed by Raymond®.

Compact, and lightweight, these energy-efficient smart chargers can be easily installed throughout your facility to enhance the uptime, performance, and productivity of your lift truck fleet.

UNIVERSAL CHARGING SOLUTION

- + Power range: 6.1kW to 24kW
- + 135A to 495A
- + High energy efficiency with standard California Energy Commission (CEC) certification
- + Modular design maximizes uptime, improves reliability, and enables faster, easier service
- + Simple, inexpensive expansion
- + BMS-controlled for optimum charging rate
- + Continuous operation if a module fails for uninterrupted charging
- + 6 year warranty



ENERGY ESSENTIALS
DISTRIBUTED BY **RAYMOND**

INCREASE THE EFFICIENCY AND PRODUCTIVITY OF YOUR LIFT TRUCKS WITH THE IDEAL LITHIUM-ION BATTERY/CHARGER COMBINATION

Minimize downtime and reduce costs with an integrated system that takes less time to charge and eliminates the need for extra batteries.



- + **Plug-and-play solution** can be easily tailored to your existing forklift fleet
- + **Multi-voltage system** allows you to combine 2.04kW power modules to produce over 24kW of output
- + **Modular architecture** provides a scalable, reliable solution that can adapt as your needs change

If you're looking for a partner with the tools and experience to help you run better and manage smarter, contact us today at 1-800-235-7200 or visit us at raymondcorp.com.

RAYMOND

POWER YOUR BUSINESS WITH A MORE SCALABLE, RELIABLE, SERVICEABLE SOLUTION

High-frequency lithium-ion battery chargers from Energy Essentials Distributed by Raymond combine cutting-edge charging and energy-management technologies in a small footprint to give you lower acquisition costs, easy maintenance, and flexible installation.

+ Modular architecture

- Multiple configuration options to suit your fleet
- Easy addition of individual modules as your needs change

+ Simple serviceability

- Fast, easy maintenance enhances uptime
- Power module can be easily changed for more continuous operation

+ Built-in redundancy

- Unneeded modules automatically turn off to allow remaining modules to operate at peak efficiency
- Charger continues to run if individual module fails

+ Small footprint

- Lightweight wall, post, or rack-mounted options to suit your facility and fleet

RAYMOND P/N	DESCRIPTION	DC AMP OUTPUT @ 24V/36V/48V	AC AMP INPUT @ 480VAC (±10%)	ESTIMATED BREAKER	CONNECTOR	OUTPUT CABLE	DC VOLTAGE
1431533/002	X05-6.1KW-135A-24/36-A320	135	8.4	15A	A320	1/0	24V/36V
1431533/003	X05-7.9KW-175A-24/36-A320	175	10.9	15A	A320	1/0	24V/36V
1431533/007	X05-10.2KW-225A-24/36-A320	225	14.1	20A	A320	2/0	24V/36V
1431536/002	X08-12.2KW-270A-24/36-A320	270	16.9	25A	A320	4/0	24V/36V
1431536/003	X08-14.3KW-315A-24/36-A320	315	19.7	30A	A320	4/0	24V/36V
1431538/003	X08-14.3KW-315A-24/36-R640	315	19.7	30A	R640	4/0	24V/36V
1431536/004	X08-15.9KW-350A-24/36-A320	350	21.9	35A	A320	4/0	24V/36V
1431538/004	X08-15.9KW-350A-24/36-R640	350	21.9	35A	R640	4/0	24V/36V
1431541/003	X12-18.4KW-405A-24/36-R640	405	25.3	35A	R640	MCM250	24V/36V
1431541/004	X12-20.4KW-450A-24/36-R640	450	28.1	40A	R640	MCM250	24V/36V
1431541/005	X12-22.4KW-495A-24/36-R640	495	30.9	45A	R640	MCM250	24V/36V
1431536/105	X08-10.2KW-170A-24/36/48-A320	170	14.1	20A	A320	4/0	24V/36V/48V
1431536/106	X08-12.2KW-204A-24/36/48-A320	204	16.9	25A	A320	4/0	24V/36V/48V
1431536/107	X08-14.3KW-238A-24/36/48-A320	238	19.7	30A	A320	4/0	24V/36V/48V
1431538/107	X08-14.3KW-238A-24/36/48-R640	238	19.7	30A	R640	4/0	24V/36V/48V
1431536/108	X08-16.3KW-272A-24/36/48-A320	272	22.5	35A	A320	4/0	24V/36V/48V
1431538/108	X08-16.3KW-272A-24/36/48-R640	272	22.5	35A	R640	4/0	24V/36V/48V
1431539/102	X12-18.4KW-306A-24/36/48-A320	306	25.3	35A	A320	4/0	24V/36V/48V
1431541/102	X12-18.4KW-306A-24/36/48-R640	306	25.3	35A	R640	4/0	24V/36V/48V
1431539/103	X12-20.4KW-340A-24/36/48-A320	340	28.1	40A	A320	4/0	24V/36V/48V
1431541/103	X12-20.4KW-340A-24/36/48-R640	340	28.1	40A	R640	4/0	24V/36V/48V
1431539/107	X12-22.4KW-374A-24/36/48-A320	374	30.9	45A	A320	4/0	24V/36V/48V
1431541/104	X12-22.4KW-374A-24/36/48-R640	374	30.9	45A	R640	4/0	24V/36V/48V
1431541/105	X12-24.0KW-400A-24/36/48-R640	400	33.1	50A	R640	4/0	24V/36V/48V

RVX05 = 12.5" W x 8.5" D x 20.25" H, weight ≤ 68 lbs*
 RVX08 = 18.5" W x 9.5" D x 21.00" H, weight ≤ 95 lbs*
 RVX12 = 26.5" W x 9.5" D x 21.00" H, weight ≤ 154 lbs*

All chargers listed are 3 Phase, 50/60 Hertz, 480VAC
 All chargers include 12ft cable length outside the cabinet
 *Weights do not include DC output cables or connectors

AVAILABLE ACCESSORIES	
RAYMOND P/N	DESCRIPTION
1379767	RVX05 & RVX08 Charger Rack Stand, Rack Mount
1379769	Cable Retention, Magnetic Cable Restraint System
1417262/001	RVX05 Charger Stand Kit
1417262/002	RVX08 Charger Stand Kit
1417262/003	RVX12 Charger Stand Kit
1417262/004	RVX16 & RVX24 Charger Stand Kit



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For more information or to see how high-frequency lithium-ion battery chargers could enhance the efficiency and productivity of your operation, please reach out to your local Solutions and Support Center, or contact us using the information below.