

HIGH FREQUENCY LITHIUM CHARGER

INNOVATIVE MODULAR ARCHITECTURE WITH LONG-TERM SAVINGS

Lithium battery technology is improving the way the industrial motive power market is conducting business.

The REVOLUTION Charger Series offer an efficient and productive power alternative, with extended run times and excellent charging capabilities designed specifically for the ruggedness of the material handling market.



Plug-and-play solution, allows charger to easily satisfy existing forklift configurations

Modular architecture that is scalable and reliable

Unmatched energy savings Unneeded modules randomly turn off, allowing the remaining modules to operate at peak efficiency

Up-time reliability Charger continues to run if individual module fails

Serviceability Easy to change power module



UNIVERSAL CHARGER SOLUTION

- + 5 to 29 kWs
- + 120 to 540 amps
- + High energy efficiency with optional CEC certification
- + Modular design for ease of service
- + "Plug and Play" utility makes expansion easy and inexpensive
- + BMS controlled for optimum charging rate
- + Charger remains operational if a power module fails

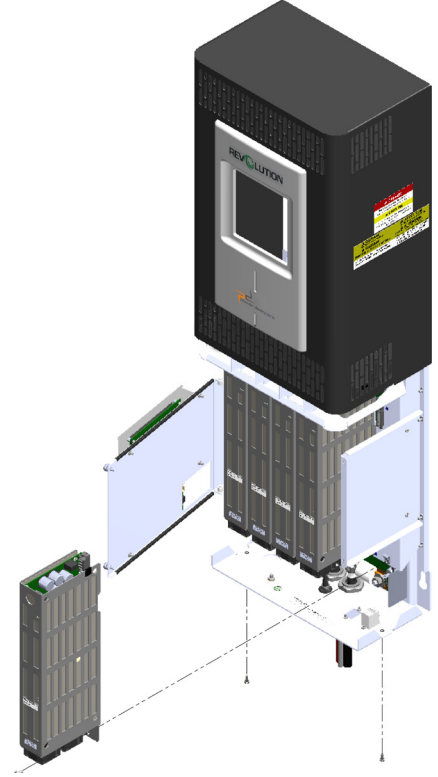
LITHIUM BATTERIES AND CHARGERS CAN INCREASE THE OPERATIONS EFFICIENCY OF YOUR LIFT TRUCKS

The combination of our charger and lithium battery takes less time to charge, meaning reduced downtime and no need for extra batteries.

VARIABLE CONFIGURATION ARCHITECTURE

The charger is a combination of cutting edge charging and energy management technologies, with a smaller footprint, lower acquisition costs, easy maintenance, and flexible configurations.

- + **Unique modular architecture**
 - + Multiple configuration capability
 - + Easily allows user to add individual modules
- + **Built-in redundancy**
 - + Unneeded modules randomly turn off, allowing the remaining modules to operate at peak efficiency
 - + Charger continues to run if individual module fails
- + **Serviceability**
 - + Up-time reliability
 - + Easy to change power module
- + **Small footprint**
 - + Wall, post, or rack mounting options



REVOLUTION Charger Specifications

Model	Module Size	Output Voltage	4kW	5kW	6kW	8kW	9kW	10kW	12kW	13kW	14kW	15kW	18kW	21kW	23kW	26kW	29kW	31kW
5X	36	24/36	90	120	150													
	48	24/36/48	75/67	100/90	125/112													
	80	24/36/48/72/80	39	52	65													
8X	36	24/36			150	180	210	240										
	48	24/36/48			125/112	150/135	170/157	200/180										
	80	24/36/48/72/80			65	78	91	104										
12X	36	24/36						240	270	300	330	350						
	48	24/36/48						200/180	225/202	250/225	275/247	300/270						
	80	24/36/48/72/80						104	117	130	143	156						
16X	36	24/36											360	420 ^{9C}	480			
	48	24/36/48											300/270	350/315 ^{9C}	400/360 ^{9C}			
	80	24/36/48/72/80											182	208				
24X	36	24/36													540	600	660	700
	48	24/36/48													450/405 ^{9C}	500/450 ^{9C}	550/495	600/540
	80	24/36/48/72/80													234	260	286	312
Number of Modules			3	4	5	6	7	8	9	10	11	12	14	16	18	20	22	24
Charger kW Rating			3.9	5.2	6.5	7.8	9.1	10.4	11.7	13.0	14.3	15.6	18.2	20.8	23.4	26.0	28.6	31.2
Input Current Draw			5.5	7.4	9.2	11.1	12.9	14.8	16.6	18.5	20.3	22.2	25.9	29.6	33.3	37.0	40.7	44.4
AC Breaker			5X: 15A	8X: 20A	12X: 30A	16X: 40A	24X: 60A											
Max. Input Current			5X: 10A	8X: 15A	12X: 22A	16X: 30A	24X: 44A											
Input Voltage			480VAC, 3-phase ± 10%															
Efficiency			Total charge cycle efficiency > 90%															
			Peak charging efficiency > 93%															
User Interface			LCD/Keypad, Ethernet (optional)															
Cooling			Forced air (fans)															
Dimensions (WxDxH)			5X: 12.5" x 8.5" x 20.25"			8X: 18.5" x 9.5" x 21"			12X: 26.5" x 9.5" x 21"			16X: 22" x 10" x 48"			24X: 30" x 10" x 48"			
Weight			5X: ≤ 56 lbs			8X: ≤ 81 lbs			12X: ≤ 120 lbs			16X: ≤ 210 lbs			24X: ≤ 300 lbs			
Certifications			UL and cUL listed; CEC Compliant															

Conventional charge rate based on 17% start rate
 Opportunity charge rate based on 25% start rate
 Fast charge rate based on 40% start rate

80V chargers are capable of charging 24/36/48/72/80 batteries
 48V chargers are capable of charging 24/36/48 batteries
 36V chargers are capable of charging 24/36 batteries

^{9C} Single cable versions available please contact Power Designers for more details

Your Complete Power Solution Provider



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ISSUED: 09/2020 PD-RV-0V
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