



REVOLUTION

MODULAR HIGH FREQUENCY CHARGERS

Conventional, Opportunity, and Fast Modular Chargers



Innovative modular architecture with long term savings

The VIKING POWER Series is an innovative line of high frequency battery chargers that incorporates cutting-edge modular power design that delivers peak efficiency greater than 93% and efficiencies greater than 90% throughout the entire charge cycle. As the charge cycle progresses and the output current tapers down, the charger will turn off unneeded modules, allowing the remaining modules to operate at peak efficiency.



- Flexible and scalable design
- Multi-voltage 1.3kW power modules, that can be combined to produce over 30kW output
- "Plug and Play" utility makes expansion easy and inexpensive
- Can be programmed for conventional, opportunity or fast applications
- Compatible with Lithium Ion, Lead Acid, VGA and other battery types
- No Downtime! Charger remains operational if a power module fails
- ▶ Built-in desulfation cycle + Wireless communication

The **VIKING POWER** Series is a combination of cutting-edge charging and energy management technologies, with a smaller footprint, lower acquisition costs, easy maintenance, and flexible configurations, which makes updating your fleet of electric lift trucks a more attractive investment than ever before. Free your operation from spare batteries, daily battery changes, battery storage areas, and energy inefficient charging!



Variable Configuration Architecture

The **VIKING POWER** series of chargers are modular concept chargers offering multiple configuration capability. The independent power modules, installed in parallel, allow the user to add individual modules, increasing the charger's output for a minimal upgrade cost.

The parallel module design provides built-in redundancy that ensures that in the event of a module failure, the charger will continue to operate, at a slightly lower current output. The unique modular architecture provides unmatched value, as diagnosis and repair of an Viking Power charger is the simplest and fastest of any charger in service today.

Unmatched Energy Savings

- Highest charging efficiency throughout the entire charge cycle
- Lowest energy costs related to battery charging
- Latest generation MOSFET power conversion technology CFC Compliant

Cost Effective with Long Term Savings

- ▶ Single cable outputs for up to 450 amps
- Eliminates the need to replace chargers as your lift truck/battery fleet changes in the future
- VikingPWR.com monitoring system option allows you to collect and analyze fleet utilization information from a single location, optimizing your cost savings



The Viking Power charger, when combined with Viking Intel data logger, has the ability to be multi-voltage (12/24/36/48/72/80), allowing the charger to automatically recognize and charge a wide range of batteries and amp hour capacities. Plus, it provides detailed fleet management information

VIKING POWER Single Phase Charger Specifications

Model	Module Size	Output Voltage	4kW	5kW	6kW	8kW	9kW	10kW	12kW	13kW	14kW	15kW	18kW	21kW	23kW	26kW	29kW	31kW
Maximum Current Output 112)	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													
	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										
	x 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						
	x 36	24/36										360	420 ^{sc}	480				
	48	24/36/48										300/270	350/315	sc 400/360s	C			
	80	24/36/48/72/80											182	208				
	x 36	24/36													540	600	660	700
	48	24/36/48														^{sc} 500/450	sc 550/495	600/540
		24/36/48/72/80													234	260	286	312
Numbe			3	4	5	6	7	8	9	10	11	12	14	16	18	20	22	24
Charge			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	4 8>	(: 20A	12X: 3	30A	16X: 40	A	24X: 60A	4							
Max. Input Current			5X: 10A	4 8>	(: 15A	12X: 2	22A	16X: 30	A	24X: 44A	4							
Input Voltage			480VAC, 3-phase ± 10%															
Efficiency			Total ch	narge cyc	le efficie	ncy > 909	%											
			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: ≤ 5	6 lbs 8	<: ≤ 81 lb	s 12X:	≤ 120 lbs	6 16X: ≤	210 lbs	24X: ≤ 3	300 lbs							
Certifi	cations		UL and	cUL liste	d; CEC Co	mpliant												
Conver	ntional	harge rate hase	ed on 17%	start rate	3 80	IV charger	s are can	able of ch	arging 24	/36/48/7	2/80 hatt	orios		scSing	le cable	versions	available r	lease cont