



V-HFM³ SERIES

High-Frequency Modular Chargers



So Versatile

It's Quite Possibly the One Battery Charger to Satisfy Every Need

We're revolutionizing modular charging with the smart, connected and efficient V-HFM³ Series battery charger.

With advanced intelligence, impressive efficiency and broad connectivity, the V-HFM³ Series charger simplifies and enhances the charging process to keep your forklift fleet moving. Our scalable design accommodates your changing business needs and future technology growth, including lithium-ion batteries, to offer low total cost of ownership. It all adds up to an impressive return on your investment.









Increase Productivity and Reduce Downtime with Responsive Service and Support

Crown's expansive service network of technicians and motive power specialists, supported by extensive parts availability, can provide the maintenance and consulting services you need to leverage your power investment.



Charging Efficiency That Reduces Energy Costs

Compared to older SCR and Ferro chargers and even more recent high-frequency chargers, the V-HFM³ is compact, lightweight and power dense. Its 97% efficiency reduces energy consumption and increases your return on investment with every charge.



Smart Charging with Advanced Intelligence

Smart sensors and intelligent displays make battery charging safe and easy. Automatic voltage sensing identifies a battery upon connection and applies the correct charging profile from 24-96 volt without the use of a monitoring device, enabling one charger to take the place of many. High-visibility indicators and a color display provide quick indication of each charger's current state while easy-to-read, LED indicator lights inform operators of charging status, cooling time, equalizing and watering needs at a glance.



Unleash the Power of Battery Management

Crown's V-Force Battery Monitoring Identification Device (BMID) provides an additional level of control for lead-acid batteries. Automatic temperature compensation and battery electrolyte level monitoring during the charging cycle maintains battery health and simplifies battery watering.





Flexibility to Meet Your Changing Needs

With its modular design, the V-HFM³ Series charger can be easily scaled to fit evolving charging requirements. Whether you need to charge lead-acid or lithium-ion batteries, upgrade hardware or software, or utilize conventional, opportunity and fast charging methods, our unique charger design incorporates new technology and battery charging needs to enhance compatibility for today and the future.

As your business needs evolve, so does the V-HFM³ Series charger. Multi-voltage capability enables one charger to be configured to charge virtually any lift truck battery in your operation, from 24-96 volts, and handle input voltages around the world, from 208 to 600 volts.

In the event your current application requires additional power output, the V-HFM³ Series charger can be easily upgraded by adding a module to an available slot.



and software.

Broad Connectivity Provides Seamless Integration

Multiple ways to access charger configuration and logs saves time and money. Integrating your battery charger with monitoring and management systems has never been easier. A built-in web browser accessible interface and support for Wi-Fi, Ethernet and USB connections means you can configure, monitor and complete diagnostics seamlessly, without the need for special apps, cables

Specifications

Model	FS3 Three Phase				FS4 Three Phase				FS6 Three Phase				
Battery Voltage Range	24V, 36V, 48V, 72V, 80V, 96V												
Main Voltage (three phase)	208-240Vac 380-480Vac 480-600Vac				380-480Vac 480-600Vac				380-480Vac 480-600Vac				
Module Configuration	One to Three Modules				Two to Six Modules				Two to Six Modules				
Efficiency	Up to 97%												
Battery Voltage vs. Charge Current (V)	24/36	48	72/80	96	24/36	48	72/80	96	24/36	48	72/80	96	
Max Charging Current (A)	300A	255A	150A	127.5A	400A	400A	300A	255A	600A	510A	300A	255A	
Dimensions (W x H x D)	12 x 9.5 x 14.5in (305 x 240 x 365mm)				12 x 18.5 x 14.5in (305 x 470 x 365mm)				12 x 18.5 x 14.5in (305 x 470 x 365mm)				
Weight	Maximum 37.4lbs (17kg) with three modules				Max 71.5lbs (32.5kg) with six modules				Max 71.5lbs (32.5kg) with six modules				
Marks of Conformity	UL Listed, cUL Listed, CEC-BC Compliant, CE Compliant												
Charge Profile Options		Conventional, Opportunity, Fast and V-Force Lithium-Ion											

Options and Accessories



Wired Remote Control Kit Part # 396587-001

The remote switch provides easy access to charger functions when the charger must be mounted in a hard-to-reach location.



Tower Light Kit Part # 396586-001

LED light indicates battery charge status from a distance. Includes 11.81 inch pole with mounting bracket, I/O expansion board with internal wiring loom, expansion board mounting standoff and DE9 mounting standoffs.

Models



FS3



FS6



Battery Monitoring Identification Device (BMID) Part # 396525-BT

Mounts on top of lead-acid batteries to monitor battery health, control and optimize charging, detect low electrolyte levels and communicate watering needs. Adjusts charge rate based on voltage and temperature to ensure optimal performance.



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