



# STRYTEN ENERGY

## M-SERIES

# X-3 >>>



X-3 is built with the latest Silicon Carbide transistor technology and offers IOT communication capabilities including Wi-Fi and Bluetooth. It can be configured for standard, opportunity or fast charging, to meet the demands of the toughest fleets. An advanced 24/36/48V multi-voltage modular design allows configuration to multiple power levels. Available in 3 bay (3-9kW), 6 bay (3-18kW) and 10 bay (21-30kW) cabinet power levels, the X-3 is ready to charge almost any motive power battery including lithium-ion and features multiple communications interfaces, including PLC, Wi-Fi, Bluetooth and USB.



OPPORTUNITY  
CHARGE



MODULAR  
DESIGN



INTELLIGENT  
CHARGING

*THE ENERGY TO CHALLENGE*

## SELECT FEATURES AND BENEFITS<sup>†</sup>

### Intelligent Charging Technology

Intelligent charging technology analyzes battery historical performance and charge data to provide a rapid and efficient recharge while maximizing battery life. The charger's diagnostic intelligence evaluates battery state and condition throughout the charging cycle.

### Silicon Carbide MOSFET power

Ultra high-frequency silicon carbide (SiC) MOSFET power conversion to minimize charger size and weight while maximizing efficiency and power factor.

### Intelligent battery module

New advanced Stryten battery module provides complete battery identification and operational history.

### Wireless communications

Wireless communication via Wi-Fi or Bluetooth allows both on-site and remote client configuration, programming and data downloads using Stryten Fleet Management software.

<sup>†</sup>X-3 chargers are field upgradeable to all capabilities as they are developed.



X-3 - MODULAR MULTI-VOLTAGE INDUSTRIAL BATTERY CHARGERS														
CABINET SIZE		3 BAY			6 BAY						10 BAY			
Model #	X324-	0303	0306	0309	0603	0606	0609	0612	0615	0618	1021	1024	1027	1030
Single Voltage High Efficiency Module - 24V Only	24V	70A	140A	210A	70A	140A	210A	280A	350A	420A	490A	560A	630A	700A
Recom. Min. DC Output Wire Size**		1/0	1/0	1/0	1/0	1/0	1/0	3/0	4/0	250mcm	4/0(Qty2)	4/0(Qty2)	4/0(Qty2)	4/0(Qty2)
Max Output Power		3kW	6kW	9kW	3kW	6kW	9kW	12kW	15kW	18kW	21kW	24kW	27kW	30kW
Model #	X3MV48-	0303	0306	0309	0603	0606	0609	0612	0615	0618	1021	1024	1027	1030
Multi-Voltage Module (24-48)	24V	64A	128A	192A	64A	128A	192A	256A	320A	384A	448A	512A	576A	640A
	36V	64A	128A	192A	64A	128A	192A	256A	320A	384A	448A	512A	576A	640A
	48V	54A	109A	163A	54A	109A	163A	217A	272A	326A	380A	435A	489A	543A
Recom. Min. DC Output Wire Size**		1/0	1/0	1/0	1/0	1/0	1/0	3/0	4/0	4/0	4/0(Qty2)	4/0(Qty2)	4/0(Qty2)	4/0(Qty2)
Max Output Power		3kW	6kW	9kW	3kW	6kW	9kW	12kW	15kW	18kW	21kW	24kW	27kW	30kW
Model #	X3MV80-	0303	0306	0309	0603	0606	0609	0612	0615	0618	1021	1024	1027	1030
Multi-Voltage Module (72-80)***	72V	39A	77A	116A	39A	77A	116A	155A	193A	232A	271A	309A	348A	386A
	80V	35A	70A	104A	35A	70A	104A	139A	174A	209A	243A	278A	314A	348A
Recom. Min. DC Output Wire Size**		1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	3/0	3/0	4/0	4/0	250mcm
Max Output Power		3.2kW	6.4kW	9.6kW	3.2kW	6.4kW	9.6kW	12.8kW	16kW	18.2kW	21.4kW	24.6kW	27.8kW	31kW
Number of Modules		1	2	3	1	2	3	4	5	6	7	8	9	10
Input Amps at 480VAC		4.2	8.3	12.5	4.2	8.3	12.5	16.6	20.8	24.9	29.1	33.2	37.4	41.5
Dimensions (HxWxD)		18.2"Hx20.6"Wx14.7"D			27"Hx18.6"Wx14.5"D						39.5"Hx18.6"Wx14.5"D			
Weight		50 lbs + (#Modules*9lbs)			67 lbs + (#Modules*9lbs)						105 lbs + (#Modules*9lbs)			
Input Voltage		480VAC +/-10% 3PH 60Hz												
Eff. & Power Factor		Efficiency=0.94 / Power Factor=0.95 max.												
Control		Manual & fully automatic control of charge, finish & equalization												
Environmental		0° to 45°C (32° to 113° F), NEMA 1												
Display		4.3" Backlit Color Graphic												
Power Device		Silicon Carbide MOSFET												
AC Line Disconnect		Contactor (CEC 6 and 10 bay models)												
Certifications		CSA Certified to UL1564, CSA C22.2, CEC												
IoT Data Capability		Wireless configuration, communication and control capabilities via BT®, Wi-Fi & PLC, USB Port												
Field Repair		Module Replacement												
Warranty		3 Year Limited Warranty												
Installation		Wall, Stand, or Shelf Mounting Options												

\*\*Stated output currents require single or dual connectors and electrical cables of adequate rated capacity-consult your Stryten representative

\*\*\*72/80V Modules are DC output rated up to 40A but are limited to 3.2kW. Therefore the average max output for 80V lead acid batteries is 35A and 80V Li-Ion Batteries is 38A

## The Energy to Challenge

Stryten Energy helps solve the world's most pressing energy challenges with a broad range of energy storage solutions and components across the Essential Power, Motive Power, Transportation, Military and Government sectors. Headquartered in Alpharetta, Georgia, we partner with some of the world's most recognized companies to meet the growing demand for reliable and sustainable energy storage capacity. Stryten powers everything from submarines to subcompacts, microgrids, warehouses, distribution centers, cars, trains and trucks. Our stored energy technologies include advanced lead, lithium and vanadium redox flow batteries, intelligent chargers and energy performance management software that keep people on the move and supply chains running.

Learn more at [www.stryten.com](http://www.stryten.com)