



e-motion®
M12










Vs.



e-motion®
M15

<u>Features</u>	<u>E.motion M12/M11</u>	<u>E.motion M15/M14</u>	<u>Benefit</u>
BATTERIES	Nickel metal hydride (NiMH) 6.0 Ah / Set 	Lithium-Ion Technology 13.0 Ah / Set 	<i>Li-Ion is most up to date technology. First power-assist on the market with Li-Ion batteries. Proven lasting technology (laptops, power tools, cell phones etc.)</i>
BATTERY RANGE	Up to 6 miles on a full charge.	Up to 16 miles on a full charge.	<i>Longer range = more independence and ease of mind.</i>
BATTERY LONGEVITY	Approx. 600 charging cycles (1 - 1.5 years)	Approx. 1300 charging cycles (3 - 4 years)	<i>Less maintenance, less cost over lifetime of system, more economically and environmentally friendly.</i>
CHARGER	Charging time: 2.5 hours Input voltage: 100-240V Batteries can be charged in or out of wheel hubs.	Charging time: 6 hours Input voltage: 100-240V Battery charger is integrated within wheel hubs therefore, batteries must remain within the wheel hubs to charge.	<i>New charger developed for charging Li-Ion batteries. Charges both batteries simultaneously. Charging status is indicated by LED's on wheels.</i>
WHEEL HUB MOTORS	2 Brushless-gearless motors at 150W each	2 Brushless-gearless motors at 60W each 30% higher efficiency rating	<i>More range especially when using in "stop & go" situations. Gearless direct drive, very responsive and noiseless</i>
OVERALL WIDTH	Approx. 8.5 cm (3.25") Allowable Camber: 0-2 degrees	Approx. 7.5 cm (3") Wheel rim and push-rim are closer to inner hub for better pushing mechanics Allowable Camber: 0-6 degrees	<i>Narrower wheels make the e-motion more likely to fit through tight spaces like doorways and van entrances.</i>
COMPONENT WEIGHT	2 Wheels = 22 lbs. each 2 Batteries = 4.5 lbs. each Total = 53 lbs.	2 Wheels + Batteries = 24 lbs. each Total = 48 lbs.	<i>Easier for transportation and taking on/off of wheelchair.</i>
USER WEIGHT	Max: 265 lbs.	Max: 285 lbs.	<i>Allow for greater range of users.</i>
WARRANTY	2 years on wheels, charger, and brackets; 6 months on batteries	2 years on wheels, charger, and brackets; 1 year on batteries	<i>Improved service of your e-motion system and double battery warranty.</i>

Features	<i>E.motion M12 /M11</i>	<i>E.motion M15/M14</i>	<i>Benefit</i>
<p>PROGRAMMING</p> 	<p>M12 - Dip switches / turn dial internally within wheel hub. (Difficult to read)</p>  <p>M11 - Non programmable.</p>	<p>M15 - Programmable with ECS (Ergonomic Control System-standard with M15 system)</p>  <p>M14 - Single Drive System. Only programmable by upgrading with the ECS as an accessory.</p>	<p>ECS (Ergonomic Control System) Access programming features at your fingertips to allow independence and LCD screen makes it more user friendly. ECS standard feature on the M15 model and available as an optional accessory on M14.</p>
<p>ROLL BACK DELAY</p> 	N/A	<p>M15 - Activated only with the ECS.</p> <p>M14 - Only available with ECS</p>	<p>Prevents wheelchair from rolling backwards for 5 seconds on gradients up to 16%.</p>
<p>DIAGNOSTICS/ TROUBLESHOOTING</p> 	Acoustic signals.	<p>M15 - Both acoustic signals and visual display via LCD screen on ECS.</p> <p>M14 - Acoustic signals</p>	<p>Easier recognition of error codes makes for easier troubleshooting.</p>
<p>POWER ASSISTANCE LEVELS / ON-OFF</p> 	<p>M12 - Hi/Low and On/off located center of wheel hub. Hi/Low is programmable.</p> <p>M11 - Hi/Low at 80%/50% assistance non programmable. / On-off located center on wheel hub.</p>	<p>M15 - Hi/Low and On/Off is accessed through ECS. Hi/Low is programmable through ECS. Additional On/Off access is located on center of wheel hub.</p> <p>M14 - Single Drive System with an option of one preset power assist level. (See Order Form) On/Off located center of wheel. Please note: M14 can be changed to Dual Drive at any time with the upgrade of an ECS.</p>	<p>Through the ECS, 10 programming parameters can be adjusted to fine tune the driving characteristics to the users needs. Hi-Low and On-Off adjustments can be done while sitting upright in chair with ECS.</p>
<p>BATTERY CAPACITY INDICATOR</p> 	<p>M12/M11 - Indicator lights only visible on batteries.</p>	<p>M15 - Battery capacity is indicated on batteries and also visible on ECS.</p> <p>M14 - Battery capacity indicated on wheel hub when batteries are inserted.</p>	<p>Easier recognition of battery capacity.</p>