

XTREME POWER CONVERSION **M90S-12S** // ROSEWATER **HUB20** COMPARISON

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UPS COMPARISON

	XTREME POWER M90S-12S	RoseWater Energy HUB20	ADVANTAGES
Modular Construction	6kW, 12kW, 18kW, 24kW, 30kW, 36kW, 42kW or 48KW	20kW	The M90S-12S modular UPS system offers scalable capacities from 6kW to 48kW with 6kW hot-swappable power and battery modules. Its flexible design allows customization of capacity, redundancy, and battery runtime to meet your needs.
Rectifier Rating	Rated for load of the system	9.6kW	The Xtreme Power M90S solution has a fully rated rectifier, unlike the Rosewater solution, which is rated at less than half. If the load exceeds the rectifier's capacity, power comes from the battery, increasing discharge cycles and reducing battery life.
Universal Slots	M90S-12S Enclosure includes Universal Slots	RoseWater Energy HUB20 does not include Universal Slot	The M90S-12S has universal slots for power and battery modules, providing flexibility for configuring or upgrading system output (kW) and battery capacity (kWh). This design ensures scalability to meet changing needs.
Efficiency	Up to 98% ECO Mode 94% in Online Mode	89%, calculated from heat rejection	Xtreme Power M90S has much higher efficiency in Online Mode, reducing energy consumption and heat output. Rosewater does not offer an ECO Mode.
Dimensions - UPS with Batteries	One Cabinet: 23.6"W x 36.0" D x 79.1"H (5.9 Sq Ft)	One Cabinet: 28.1"W x 84"H x 26.25" D (5.1 Sq Ft)	The Xtreme Power M90S-12S and RoseWater HUB20 are compact, but the M90S-12S delivers over double the capacity in a similar footprint, offering superior performance without extra space. The SB20 requires a ceiling height over 100" for ventilation.
Voltage	120/240V or 120/208V (2P, N, G)	120/240V (2P, N, G)	The M90S-12S supports 240/120V and 208/120V split-phase configurations, offering versatility for various applications. The RoseWater system supports only 240/120V, limiting flexibility.
LCD Display	LCD - Chassis Level and Power Module Level	LCD - Chassis Level	Both the Xtreme Power M90S-12S and RoseWater systems feature intuitive LCD interfaces at the chassis. However, the M90S-12S offers a larger main display and additional module-level screens, enhancing visibility, information access, and troubleshooting.
Rigging and Installation	Efficient, Straightforward	Costly, Complex, Time Consuming	The M90S-12S ships with the frame and modules separately, simplifying transport and setup. The frame, with casters, is easy to position, and modules are installed during commissioning. HUB20 systems lack casters and modularity, requiring costly, time-intensive rigging.