

# XTREME POWER CONVERSION **M90S-12S** // ROSEWATER **HUB40** COMPARISON

The M90S-12S (12-slot) is a compact, scalable, modular online double-conversion UPS that protects critical data and equipment with top-tier reliability, efficiency, and flexibility. Available in capacities from 6 kVA to 48 kVA, it supports internal and external battery configurations for versatile power solutions.



## UPS COMPARISON

|                                 | XTREME POWER M90S-12S                              | RoseWater Energy HUB40                                  | ADVANTAGES  |
|---------------------------------|--|---|---|
| Modular Construction            | 6kW, 12kW, 18kW, 24kW, 30kW, 36kW, 42kW or 48kW    | 40kW  | 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                | Full Capacity                                      | Less than Half Capacity (19.2kW)                        | 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 HUB40 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<br>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) | Two cabinets: 2x 28.1"W x 52" H x 26.25" D (10.2 Sq Ft) | The Xtreme Power M90S-12S is about 50% more compact than the RoseWater HUB40, offering significant space savings without sacrificing performance or reliability.  |
| 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. HUB40 systems lack casters and modularity, requiring costly, time-intensive rigging. |