

## XTREME POWER CONVERSION M90S // Vertiv APS COMPARISON

The M90S is a scalable modular online double conversion single phase UPS that protects critical data and equipment with industry leading reliability, efficiency, and flexibility. M90S products are available in capacities from 6KVA to 24KVA with internal or external battery options.



### 18KW UPS COMPARISON

	XTREME POWER M90S-18KVA	Vertiv APS 20KVA	ADVANTAGES
Capacity	18KVA/18KW	20KVA/18KW	Xtreme Power M90S is 18KVA with a Unity PF for 18KW output. Vertiv APS is 20KVA with a .9 PF, for 18KW output. Both M90S and APS provide 18KW of power handling capability.
Topology	Online double conversion	Online double conversion	Both the Xtreme Power M90S and the Vertiv APS offer online topology, providing the highest degree of power protection.
Modularity	6KVA to 24KVA in 6KVA increments	5KVA to 20KVA in 5KVA increments	Both the Xtreme Power M90S and the Vertiv APS have modular chassis construction making it easy to add modules for capacity or redundancy, increasing capability without increasing footprint. M90S is scalable to 24KVA/24KW, while the Vertiv APS is limited to 20KVA/18KW.
Efficiency	Up to 98% ECO Mode 93% Online Mode	Up to 98% in ECO mode 91% Online Mode	Xtreme Power M90S has higher efficiency in On-Line Mode operation, reducing energy consumption and heat output.
Internal Runtime	Up to 9 minutes @ 18KW	Up to 5 minutes @ 18KW	Xtreme Power M90S provides much longer runtime with internal batteries.
Maintenance Bypass	Standard	Standard	Xtreme Power M90S has a standard internal maintenance bypass switch, allowing for service of the UPS without disconnecting the loads. Both Xtreme Power and M90S and Vertiv APS have a standard maintenance bypass switch.
Universal Slots	Yes	No	Xtreme Power M90S has universal slots, accepting either power or battery modules allowing for more configuration versatility. Vertiv APS has specific slots for power modules and battery modules.
Display	LCD	LCD	Both the Xtreme Power M90S and the Vertiv APS offer an intuitive LCD graphical interface at the chassis level. XPC M90S also has LCD displays on each individual module, enhancing information gathering and troubleshooting procedures.
Warranty	3yr repair or replace	2yr repair or replace	Xtreme Power M90S comes with a 3yr warranty. Vertiv APS comes with a 2yr warranty.