

# Kepeco's MST-MH Series vs. HP/Agilent/Keysight 66000A and N6700 Series



## Kepeco's MST-MH Power Supplies are the best choice for replacing the obsolete 66000A Series by HP/Keysight/Agilent - better than the N6700 Series. Watch the comparison video at <https://www.youtube.com/watch?v=Fv6hhknMLWs&list=TGGNmyye0E2yqowNTA5MjAyMw>

- MST-MH is pluggable same as 66000A, while N6700 is not pluggable.
- MST-MH doesn't require reprogramming or revalidation of TPS's (programming code) when replacing 66000A.
- Kepeco rack is passive; both 66000A and N6700 racks are active. The digital controller is embedded in the 66000A and cannot be easily replaced. Kepeco's modular controller is easily replaced.
- MST-MH are field configurable; modules may be individually swapped without disconnecting or disassembling the system, even after many years of service. 66000A connectors are brittle and fail when inserted.
- MST-MH modules are hot swap; both 66000A and N6700 are not.
- MST-MH allows 27 modules per GPIB connections; 66000A allowed 16 and N6700 allow 4.
- MST-MH allows a maximum of 3 racks per link; 66000A allowed 2 and N6700 allows none.
- MST-MH communication distance is 300m; 66000A distance was 30m and N6700 is 20m.
- MST-MH supports both primary and secondary addressing; both 66000A and N6700 support only secondary addressing.
- MST-MH maximum power per rack at low line (115V a-c) is 1600W; 66000A was 1024W while N6700 is only 600W.
- MST-MH maximum power per rack at high line (230V a-c) is 1600W; 66000A was 1024W while N6700 is only 1200W.
- MST-MH supports 27 units in parallel; 66000A supports none in parallel, N6700 does not specify.
- MST-MH programming accuracy is superior to both 66000A and N6700.
- MST-MH readback accuracy is similar to 66000A and much better than N6700.
- MST-MH line and load regulation is similar to 66000A but slightly better in some modules, way better than N6700.
- MST-MH ripple and noise are better than 66000A; about the same as N6700 when using adapter Kit 219-0618.
- MST-MH with Adapter Kit 219-0618 has 6-32 screws for ring lug output connections, same as 66000A. N6700 is connector based, requiring major rewiring.
- MST-MH has same form factor (4U) as 66000A. N6700 is 1 U but cooling requirements for reliable operation will demand 2U of space
- MST-MH input is autoranging, delivering same power for 115V or 230V a-c, while 66000A input was switch selected, possibly damaging the unit if not properly set.
- MST-MH offers power factor correction of 0.98 min.; not included on 66000A while N6700 is only 0.80 min.
- MST-MH is d-c rated; both 66000A and N6700 are not d-c rated.
- MST-MH rack includes a-c input redundancy; both 66000A and N6700 do not.
- MST-MH fits a shallow cabinet with a depth of 24 inches; both 66000A and N6700 do not.
- MST-MH includes rack mounting with slides; all three include rack mounting with rails.
- MST-MH relay polarity and disconnect is 20A max.; both 66000A and N6700 are only 10A max.
- MST-MH is a true voltage and current mode supply, where as 66000A is a voltage mode supply controlled in current limiting.

[www.kepcopower.com/mst-h.htm](http://www.kepcopower.com/mst-h.htm)

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