

# Kepco's MST-MH: When you need to change the power supply, NOT the TPS! 1800W DC Modular/Redundant GPIB Power System



**Kepco's MST-MH Power Supplies provide solutions for extending the life of Automated Test Systems without the need to rewrite and re-validate Test Program Sets (TPS). MST-MH's are drop-in replacements with matching connectors and lugs. No need to perform labor intensive rewiring. MAT-H are two-quadrant constant voltage/constant current power supplies with programmable polarity/disconnect switching relays built-in.**

The systems are configurable using the RA 55-H 9-slot mainframe rack with a plug in controller (MST 488-27H) and additional slots for up to eight 200 watt power modules. The controller includes functions that accept test programs with commands for other

power supplies. The RA 55-H rack comes with wiring adapters that allow use of existing wiring.

Additional RA 55-H mainframes may be added to allow up to 26 channels of MST power supplies.

The RA 55-H comes with standard IEEE 488 and RS 232 ports. Ethernet (LAN) and USB ports are optional.

MST-MH's are compatible with Kepco's MAT and MBT families of power supplies. Each of these legacy families of power supplies are characterized as a digitally-controlled fast voltage and current stabilized d-c source with a sharp crossover between the voltage and current modes of operation.

The MST modules plug in from the front and may be unplugged and

removed without shutting down the entire power system.

N+1 redundancy is provided with forced current sharing when like modules are mounted together and wired in parallel. Eight different modules are offered from a 0-6V/20A unit to a 0-150V/1.2A rating. Each module is equipped with internal load disconnect relays and polarity reversal relays. Series configurations allow for higher voltages.

The RA 55-H mainframe can be configured for redundant input a-c.

Each module contains a single address, multiple instrument serial port. It is a 2-wire serial bus operating at 375KHz that can address as many as 27 separate modules of either the MST, MAT or MBT design.

MST-MH MODEL TABLE							
MODEL (1)(2)	OUTPUT VOLTAGE (Volts dc)	OUTPUT CURRENT Maximum (Amps)			RIPPLE/NOISE		EFFICIENCY (Percent)
	Adjustment Range	45° C	55° C	65° C	mV rms	mV p-p	100% Load
MST 6-20MH	0 - 6	20	16	12	2	5	51%
MST 15-12MH	0 - 15	12	9.6	7.2	3	7	61%
MST 25-8MH	0 - 25	8	6.4	4.8	4	8	62%
MST 36-5MH	0 - 36	5	4.0	3.0	5	10	63%
MST 55-3.5MH	0 - 55	3.5	2.8	2.1	9	15	64%
MST 75.2.5MH	0 - 75	2.5	2.0	1.5	12	20	64%
MST 100-2MH	0 - 100	2.0	1.6	1.2	15	35	66%
MST 150-1.2MH	0 - 150	1.2	1.0	0.7	20	45	66%

- (1) Suffix T option models are compatible with a particular legacy system.
- (2) MST-MH Models include current monitoring  
MST MHT models include current sharing  
Both MST-MH and -MHT include standard isolation/polarity reversal relays and filter upgrades present in -F suffix models.  
Suffix M indicates digital meter, standard on all models.

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

