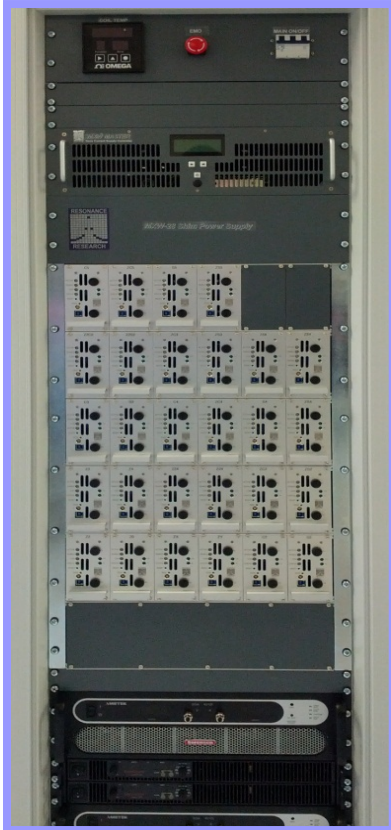


MRI Shimming Technology High Power Shim Amplifier Model MXW-xx

OEM and PRE-Clinical Applications
10A@ 60 V DC; 100 V AC

WATER COOLED



The Challenge

Provide stable current source with high output compliance for control of multiple shim channels in a modern MRI system.

Ensure stable operation in presence of large voltages induced in the shim coils.

Flexible digital and analog control from the MRI console for static and dynamic operation.

The MXW series shim power amplifier enables shimming of MRI magnets under static and dynamic shim updating and real time shimming on multiple slices, voxels or regions of interest with simultaneous compensation of shim induced eddy currents.

Output channels	6 to 30
Digital Resolution	16 bit
Total output	+/-80A
Maximum current output	10A per channel
Maximum voltage output	DC compliance +/-60V ; +/- 70V AC to +/- 100V AC
Setup control	RS-232 D-SUB 9M
Operation	Linear output stages, dual rail.
Analog input	+/- 5V or +/- 10 V differential
Thermal stability	50 ppm/degree C
DC offset trim	+/- 1%
Load - nominal	0.5-3 ohm, 0-5 mH
Hum	50/60 Hz less than 100 ppm (rms)
Control	RS-232
System Power supply	Switchmode
Regulatory approval	Compliant but not certified UL/EN/IEC/CSA C22.2 60601
Dimensions	19" x 9U x 550 mm (22")
AC power	208 V or 400V, 3-phase, up to 10 kVA; 50/60 Hz
Current Stability	50 ppm/day and 50 ppm/deg C
Expandable interface	To Dynamic Shimming
Optional filter unit	30A capacity and 6-30 channels (dual 30A filters per channel)

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