

MTCA.4 Power Supply

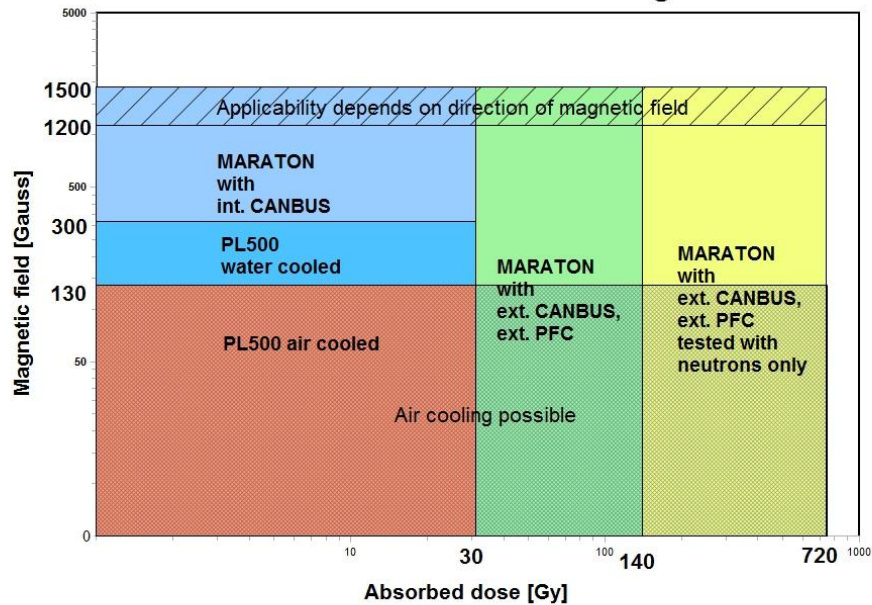


MTCA.4 Bulletpoints

- 16x 12 V/8.4 A payload outputs (max. 1000 W total)
- 16x 3.3 V/0.2 A management outputs
- Output ripple (12 V): < 10 mVpp / < 5 mVpp / < 1 mVRMS
- Output ripple (3.3 V): < 12 mVpp / < 10 mVpp / < 5 mVRMS
- Line regulation (12 V): < 3 mV over 100–253 VAC
- Load regulation (12 V): < 43 mV static, < 55 mV dynamic

Form Factor	Double-height / double-width MTCA.4 module
Dimensions (W × H × D)	187.3 mm × 170.0 mm × 59.4 mm
Weight	31,5 Kg
Operating Temperature (Derating)	No derating up to 40 °C, 800 W at 50 °C
Input Voltage Range	92 V – 265 V AC, 47–63 Hz
Input Selection	Automatic (wide range)
Soft Start	Yes
Output Voltages	12 V (payload), 3.3 V (management)
Output Channels	16x 12 V, 16x 3.3 V
Ripple & Noise	< 10 mVpp (12 V), < 12 mVpp (3.3 V)
Maximum Power Output	1000 W
Load Regulation	< 43 mV static, < 55 mV dynamic (12 V)
Line Regulation	< 3 mV (12 V), < 1 mV (3.3 V)
Recovery Time (short / long sense)	< 0.2 ms / < 0.15 ms (12 V)
Output Impedance	0.5 mΩ static / 250 mΩ dynamic (12 V)
Temperature Coefficient	< 0.02% / K
Protection Features	Thermal protection (5x sensors), current limit
Trip-Off Behavior	Digital controller with full crate protection
Cooling	Convection / integrated design
Connector Type (Power Output)	Backplane via MTCA.4 connector
Remote Interface (optional)	USB
Control Interface (Local)	Integrated digital power controller
Connector Type (Input)	IEC AC inlet with filter (integrated)
Connector Type (Output Payload)	Backplane via MTCA.4 connector – 12 V
Connector Type (Output Management)	Backplane via MTCA.4 connector – 3.3 V
Output Ripple Frequency (3.3 V)	1.25 MHz
Short Time / Long Time Output Current Limit (3.3 V)	8 A / 4 A
EMC Compliance	EN 61000-6-3, EN 55022 Class B, EN 61000-6-2
Standards	MicroTCA.4 (PICMG standard)

WIENER solutions for radiations and magnetic fields:



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