

MARATON moderate HE



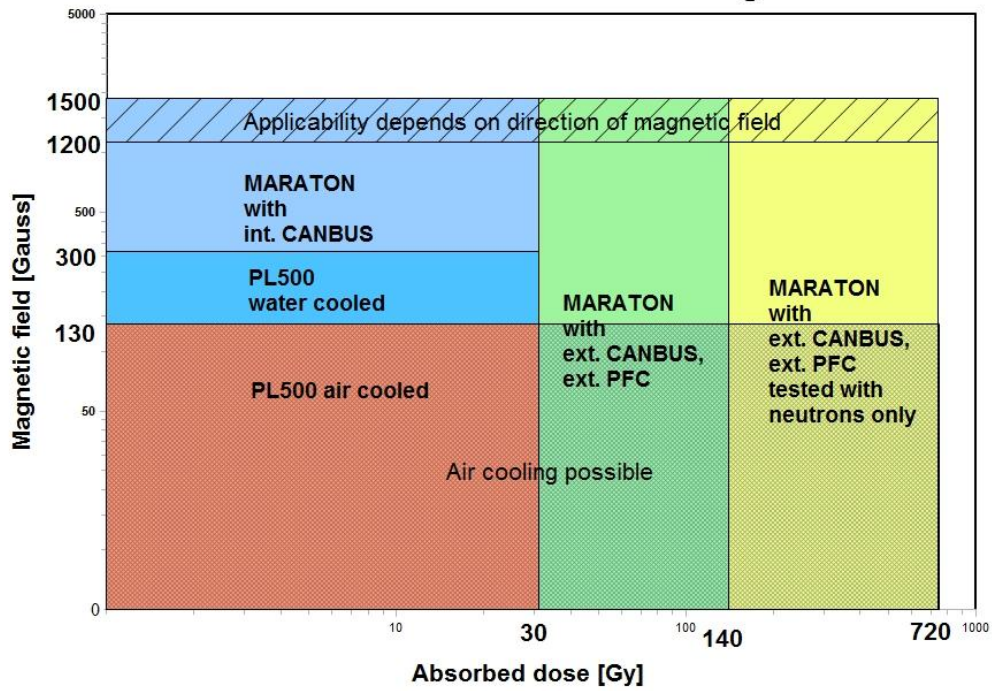
Maraton HE Bulletpoints

- Up to 12 low-voltage DC channels
- Output power up to 3.6 kW (water cooled)
- Magnetic field tolerance up to 1200G
- Radiation hardness up to 30 Gy
- CAN-bus interface
- Redundant and modular architecture

Technical Information

Form Factor	3U rack-mountable power bin with plug-in module
Dimensions (W × H × D)	434 mm × 132 mm × 325 mm
Weight	31,5 Kg
Operating Temperature (Derating)	Derating >40 °C with reduced MTBF, max. 60 °C operation
Storage Temperature	-30 °C to +85 °C (water removed) / +3 °C to +85 °C (with water)
Input Voltage Range	385 V DC ±10 %
Input Selection	Fixed, PFC input module
Soft Start	Yes
Output Voltages	2–60 V depending on module
Output Channels	Up to 12 (6 modules x 2 channels)
Maximum Power Output	Up to 3 kW (air) / 3.6 kW (water)
Ripple & Noise	<10 mVpp (<8 V), <15 mVpp (>8 V)
Load Regulation	<0.2% (typ.)
Line Regulation	0.02%
Recovery Time (short / long sense)	0.1–1 ms (short), <33 ms (long)
Output Impedance	Static: 1.5 mΩ / Dynamic: 0.5 Ω @ 100 kHz
Temperature Coefficient	<0.2 % / 10 K
Protection Features	Over/undervoltage, thermal shutdown, programmable limits
Trip-Off Behavior	Channel/group/global trip-off, status LEDs
Cooling	Forced air or optional water cooling (self-sealing)
Connector Type (Power Output)	24-pin power, 3x Sub-D 9-pin for sensing
Remote Interface (optional)	CAN-bus (standard), optional USB/Ethernet
Control Interface (Local)	Microcontroller, front panel with indicators

WIENER solutions for radiations and magnetic fields:



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