



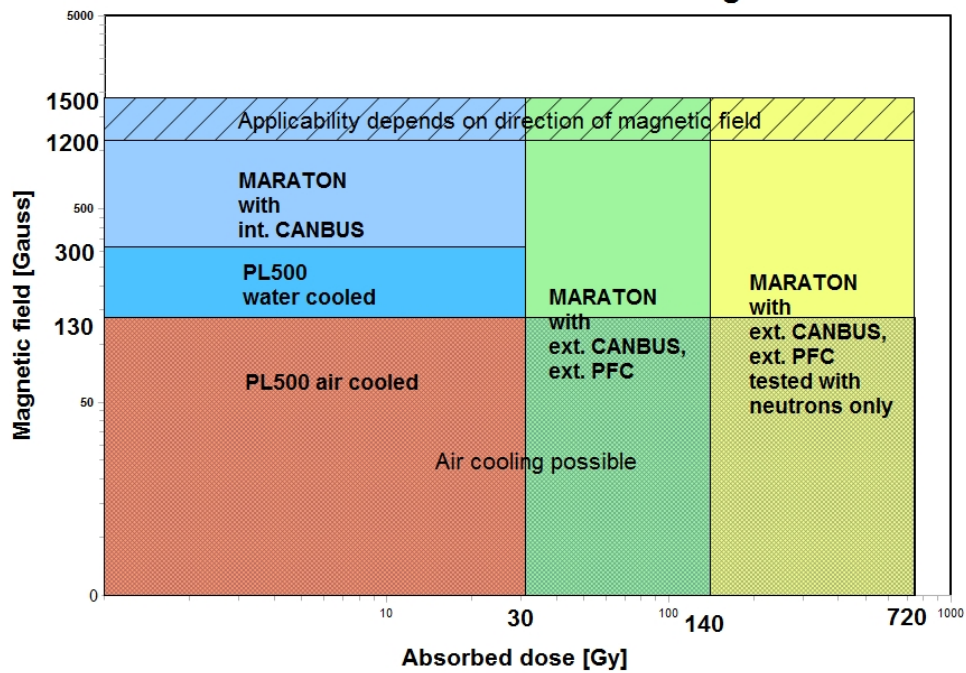
PL508 Key Specifications

- › • Up to 10 independent, floating DC outputs, up to 3/6 kW total output power
- › • Fully self-controlled with programmable voltage, current, and protection limits
- › • Low ripple and noise performance
- › • Auto-ranging AC input (94–265 VAC) with PFC
- › • CAN-bus interface for remote control and monitoring
- › • Optional water cooling and system reset/power-fail signals

Technical Information

Form Factor	3U rack-mountable 19" power bin with modular plug-in power box
Dimensions (Power Box)	Power bin and power box dimensions vary; typical depth ~445 mm
Weight	Approx. 9.6 kg to 19 kg depending on power module configuration
Operating Temperature	0 °C to +50 °C without derating
Storage Temperature	–30 °C to +85 °C
Input Voltage Range	94–265 VAC, 50/60 Hz, active PFC and auto-ranging input
Efficiency	75% @ 2 V; >83% above 5 V; up to 90% at 48 V input (230 VAC)
Maximum Output Power	Up to 600 W per channel; total output power up to 3 kW (3U) or 6 kW (6U configuration)
Output Voltage Range (per module)	2 V to 85 V depending on power module type (e.g., MEH series)
Output Current Range	Up to 115 A per channel, depending on configuration
Voltage Rise Time	Monotonic 50 ms default ramp; programmable per channel
Ripple & Noise	<10–15 mVpp (short cables); <3 mVpp for long cable configurations (10 m)
Regulation Accuracy (Static)	Static: <0.05–0.1% depending on module type
Recovery Time (Dynamic Load)	0.2–1.0 ms (short wire), <320 ms (long cables with voltage drop)
Isolation (Floating Range)	Standard ± 100 V; optional versions support up to ± 500 V
Temperature Shutdown Limits	90 °C (AC input), 110 °C (heat sink), 70 °C (internal ambient)
Overvoltage Protection	Factory default: 125% of nominal output voltage
MTBF	>100,000 h (electronics); >65,000 h (blower) at 40 °C ambient
Interfaces	CAN-bus for control and monitoring; optional display, system reset, and power-fail signal
Cooling Method	Self-ventilated air cooling standard; optional direct water cooling available
Number of Channels	Up to 8 independently programmable floating DC outputs
Sense Compensation Range	Compensation range up to 10 V or nominal voltage depending on module
Voltage Control Modes	Channel-wise programmable: voltage or current regulation
Cable Distance Adaptation	Dynamic behavior adjustable via internal jumpers (short/medium/long)
Output Connections	M6 threaded bolts (150 A); 9-pin Sub-D for sense and temperature feedback
Overcurrent Protection	Ilim for constant current mode, I _{max} for trip-off threshold – both programmable
Trip-Off Logic	Processor-controlled shutdown within 3 ms upon fault or deviation
Interlock Function	

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