
ITOPP
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High Power Microwave L-Band Vulnerability Assessment



from **spark** to **lightning**

High power microwave vulnerability assessment

High power microwave (HPM) technologies can produce significant effects from unsettling to destroying the electronics. Thus, the protection of electrical systems against EM waves becomes a major issue.

In order to identify potential weaknesses and thus improve the hardening of the system, ITOPP has developed a microwave equipment to perform vulnerability tests.

Compact and transportable system: easy to deploy.
Planar and wide band antenna.
Scalable technology.



Data sheet

Dimensions (L × W × H)	1.5 × 1.4 × 1.7 m
Weight	It depends on the autonomy. Without battery: 450 kg
Remote Control	Yes
Main Supply	400 V – 3 phases
Power Supply Battery	Autonomy depends on the stock of embarked battery. e.g: Battery run time: around 1 hour Standby time: up to one week Rechargeable battery pack in 3 to 4 hours
Technology	GaN power amplifiers
Frequency	L-Band
Output Power Amplifiers	Between 30 kW and 40 kW
Radiated Power	Between 10 MW et 15 MW
Duty Cycle	Up to 10%
Repetition Frequency	Up to 5 kHz
Pulse Width	20 μs – 500 μs
Antenna Gain	Between 24 dB and 27 dB
Rear Lobe	Inferior to 0 dB



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