
ITHPP
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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 within military targets and commercial systems. 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, ITHPP has developed a microwave equipment to perform vulnerability tests.

Compact and transportable system: easy to deploy.

Planar and wide band antenna.



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



ALCEN

6 rue Paul Baudry
75008 Paris – France
Tel. + 33 (0)1 40 72 55 00
alcen@alcen.com
www.alcen.com

ITHPP

Drèle
46500 Thegra – France
Tel. +33 (0)5 65 33 43 30
contact@ithpp-alcen.com
www.ithpp-alcen.com