



# PEM 10 VUV

# PEM 20 VUV

VUV – Energy measurement heads with high sensitivity  
Specially designed for 157 nm



	<b>PEM 10 VUV</b>	<b>PEM 20 VUV</b>
Aperture	10 mm	20 mm
Sensitivity	30 .. 50 V/J at 1 MOhm	15 .. 25 V/J at 1 MOhm
Repetition Rate	150 Hz at 1 MOhm	150 Hz at 1 MOhm
max. average power	5 W	5 W
accuracy	±5 %	±5 %
max. energy density ( $\tau=10\text{ns}$ )	50 mJ/cm <sup>2</sup>	50 mJ/cm <sup>2</sup>
Max. peak power density	5 MW/cm <sup>2</sup>	5 MW/cm <sup>2</sup>
Detection threshold	100 $\mu\text{J}$	200 $\mu\text{J}$
Window	MgF <sub>2</sub>	MgF <sub>2</sub>
Connector	SMA	SMA
Vacuum connector	KF 16 ND	KF 25 ND
Dimension (incl. SMA- and vacuum connectors)	diameter 30 mm, length 54 mm	diameter 42 mm, length 72 mm
Read out unit	LEM 2020 or Scope	