

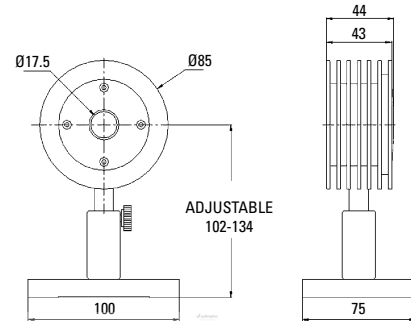
30A-N

CW & Single Pulse Measurements 60mW-30W 30mJ-200J

Recommended Use: Concentrated beam YAG lasers
 Special Features: Very high damage threshold for power density

Absorber:	N type, 1064nm, 532nm	
Aperture:	Ø17.5mm	
Digital Power Scales:	30W / 3W	
Maximum Average Power Density:	5KW / cm ²	
Power Noise Level:	3mW	
Power Accuracy:	±3%	
Maximum Energy Density J/cm ² :	1µS:	1J/cm ²
	0.5ms:	20J/cm ²
	>5ms:	>100J/cm ²
Response Time with Display (0 - 95%):	2s typ	
Linearity with Power:	±1%	
Energy Scales:	200J / 30J / 3J	
Energy Threshold:	30mJ	
Cooling:	Convection	

30A-N



30(150)A-HE/HE1

CW & Single Pulse Measurements 50mW-150W^a 50mJ-200J

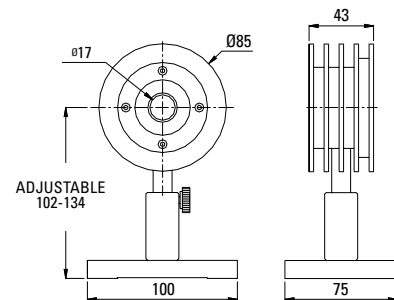
Recommended Use: High energy and average power pulsed lasers.
 HE: YAG + harmonics, Holmium, Erbium / HE1: Ruby, Alexandrite, Erbium
 Special Features: Very high damage threshold, high average power.

Absorber:	HE type, 0.19-3µm except 625-900nm HE1 type: 0.19-0.76µm, 2.9µm	
Aperture:	Ø17mm	
Digital Power Scales:	150W / 30W/3W ^a	
Maximum Average Power:	30 Watts continuous, 150 Watts intermittent	
Maximum Average Power Density:	500W / cm ²	
Power Noise Level:	3mW	
Power Accuracy:	±3%	
Maximum Energy Density J/cm ² ^b	single shot	10-30Hz
	10ns	5
	0.5ms	100
	5ms	250
Response Time with Display (0 - 95%):	3.8s, typ	
Linearity with Power:	±1%	
Energy Scales:	200J/30J/3J	
Energy Threshold:	50mJ	
Cooling:	Convection	

Notes: a. Max power is 30W continuous, 150W intermittent
 b. For shorter wavelengths derate to values shown:

Wavelength	Derate to value
355nm	50%
266nm	50%
193nm	10%

30(150)A-HE/HE1



Ordering Information

Item	Description	Ophir P/N
30A-N	30W power/energy meter for concentrated or high energy YAG beams	1Z02003
30(150)A-HE	30/150W power/energy meter for wavelength 0.19-625 and 0.9-3µm. Energy calibrated for 0.19-0.6µm and 2.9µm	1Z02380
30(150)A-HE106	30(150)A-He with energy calibration for 1.064µm	1Z02385
30(150)A-HE1	30/150W power/energy meter for high pulse energies, 0.19-0.76µm. Energy calibrated for 0.694µm (Ruby laser)	1Z02382
30(150)A-HE1-755	30(150)A-HE1 with energy calibrated for 0.755µm (Alexandrite laser)	1Z02387
Fiber adapters	See page 55 for ordering information	