

# 30A / 30A-P

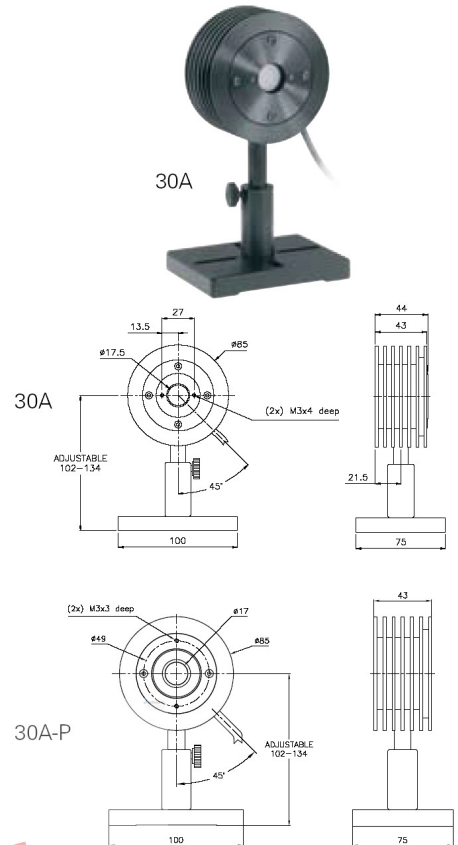
## CW & Pulsed Measurements 20mW - 30W 6mJ - 30J

Recommended Use: General, powers to 30W

Special Features: 30A: Fast response, wide dynamic range

30A-P: Flat spectral response for pulsed lasers

Absorber:	Broadband, 0.19-20 $\mu$ m , P type 0.15 – 6 $\mu$ m			
Aperture:	$\phi$ 17mm			
Digital Power Scales:	30W / 3W			
Maximum Average Power Density:	Broadband 25KW/cm <sup>2</sup> , P type 50W/cm <sup>2</sup>			
Power Noise Level:	BB: 1mW, P: 3mW			
Power Accuracy:	$\pm$ 3%			
Maximum Energy Density J/cm <sup>2</sup>	single shot	10 – 30Hz		
Head type:	BB	P <sup>a</sup>	BB	P <sup>a</sup>
<100ns	0.3	10	0.3	1
0.5ms	2	10	2	1
2ms	2	10	2	1
10ms	2	10	2	1
Response Time with Display (0-95%):	BB: 0.8s, P: 2.5s			
Linearity with Power:	30A: $\pm$ 1%, 30A-P: $\pm$ 1.5%			
Energy Scales:	30J / 3J and BB: 300mJ			
Energy Threshold:	BB: 6mJ, P: 30mJ			
Linearity with Energy:	$\pm$ 1.5% $\pm$ 50 $\mu$ J			
Cooling:	Convection			
Note:	a. For shorter wavelengths derate maximum energy density to values shown:			
Wavelengths	Derate to value			
355nm	40%			
266nm	10%			
193nm	10%			



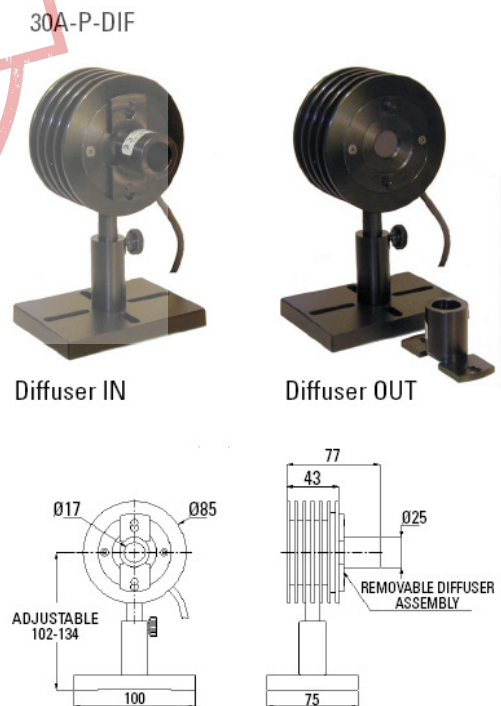
# 30A-P-DIF

## CW & Pulsed Measurements 50mW - 30W 30mJ - 30J

Recommended Use: Concentrated beam Q switched lasers

Special Features: Diffuser to spread out concentrated beams

Absorber:	P type, 0.15 - 6 $\mu$ m <sup>a</sup>	
Aperture:	$\phi$ 16mm	
Digital Power Scales:	30W / 3W	
Maximum Average Power Density:	500W/cm <sup>2</sup>	
Power Noise Level:	3mW	
Power Accuracy:	$\pm$ 5%	
Maximum Energy Density J/cm <sup>2</sup> for <100ns pulses and 10 – 50Hz:	Diffuser IN	Diffuser OUT
1064nm	3	1
532nm	2	1
355nm	1	0.4
Response Time with Display (0-95%):	2.5s typ	
Linearity with Power:	$\pm$ 1.5%	
Energy Scales:	30J / 3J	
Energy Threshold:	30mJ	
Cooling:	Convection	
Note:	a. With diffuser in, head is only calibrated for 1064nm, 532nm and 355nm wavelengths.	



Ordering information		
Item	Description	Ophir P/N
30A-V1	30 Watt power/energy meter	1Z02604 / 7Z02604 (RoHS)
30A-P-V1	30 Watt power/energy meter for pulsed lasers	1Z02613 / 7Z02613 (RoHS)
30A-P-DIF-V1	30W power/energy meter for pulsed lasers with diffuser for concentrated beams up to 500W/cm <sup>2</sup>	1Z02616 / 7Z02616 (RoHS)