

Secondary standard of unit of energy of pulse laser emission in portable design



IT IS DESIGNED FOR

calibration and verification of measuring instruments of laser emission energy in their places of operation

IT CAN BE USED

in medicine, in industry, construction, in scientific research, for energy measuring instruments, distribution of energy density, pulse duration and wavelength of laser emission in the wavelength range from 0.3 to 2.0 microns

**TABLE WITH CHARACTERISTICS
METROLOGICAL CHARACTERISTICS OF STANDARD OF UNIT OF PULSE LASER
EMISSION ENERGY IN MOBILE DESIGN**

Nominal values of wavelength, μm	1,064; 0,532
Energy value range, J: at wavelength 1,064 μm	$5 \cdot 10^{-3} \div 2 \cdot 10^{-1}$
Energy value range, J: at wavelength 0,532 μm	$5 \cdot 10^{-3} \div 5 \cdot 10^{-2}$
Pulse duration, s	$(5-7) \cdot 10^{-9}$
Beam diameter at the standard outlet, mm	6 – 8
Time of measuring instrument verification at one wavelength, h	1
Combined error of energy measurement, not more than	$1,5 \cdot 10^{-2}$
Transfer error of unit of energy, not more than	$1,0 \cdot 10^{-2}$
Combined standard uncertainty of energy measurement, not more than	$3,0 \cdot 10^{-2}$