

Formula to convert Joules or mJoules to time:

For UVB systems to convert mJoules:

$$\text{Time (in minutes)} = \frac{0.01667 \times \text{mJoules}}{\text{Measured light output in mW/cm}^2} *$$

Example: Convert 250 mJoules to minutes and seconds:

1. $\frac{0.01667 \times 250}{1.46 **} = 2.85 \text{ minutes}$
2. $0.85 \times 60(\text{seconds}) = 51 \text{ seconds}$
3. $2.85 \text{ minutes} = 2 \text{ min.} + 51 \text{ sec.}$

For UVA systems to convert Joules:

$$\text{Time (in minutes)} = \frac{16.67 \times \text{Joules}}{\text{Measured light output in mW/cm}^2} *$$

Example: Convert 3.2 Joules to minutes and seconds:

1. $\frac{16.67 \times 3.2}{19.00 **} = 2.81 \text{ minutes}$
2. $0.81 \times 60(\text{seconds}) = 49 \text{ seconds}$
3. $2.81 \text{ minutes} = 2 \text{ min.} + 49 \text{ sec.}$

* The mW/cm² is the averaged measured output of the UVA or UVB lamps using a calibrated radiometer.

** These are just typical light outputs for example purposes only.

Questions? Please call 800-882-4683 or 1-239-652-1385.