



A Leader in Electric Motor Testing

Tip Of The Week

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Peak Voltage vs RMS Voltage

In an AC sine wave the peak voltage is the voltage at the maximum amplitude point of a given sine wave or cycle. We use RMS (root mean square) to determine the equivalent heating effect of AC power as compared to DC power due to the constant changing AC voltage. Therefore, RMS voltage gives us the voltage at which the AC power equivalent to DC heating effect is achieved.

$RMS = \text{Peak Voltage} / (\sqrt{2} \text{ or } 1.414)$

Source: *Armature Winding Repair & Testing Workbook* by RLA Inc.

You are invited to submit an Electric Motor Testing Tip of your own and receive a free PdMA® mug or hat if we publish it! Contact Lou at 813-621-6463 ext. 126 or lou@pdma.com.

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