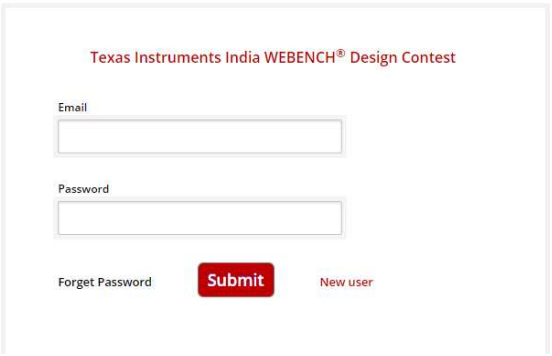
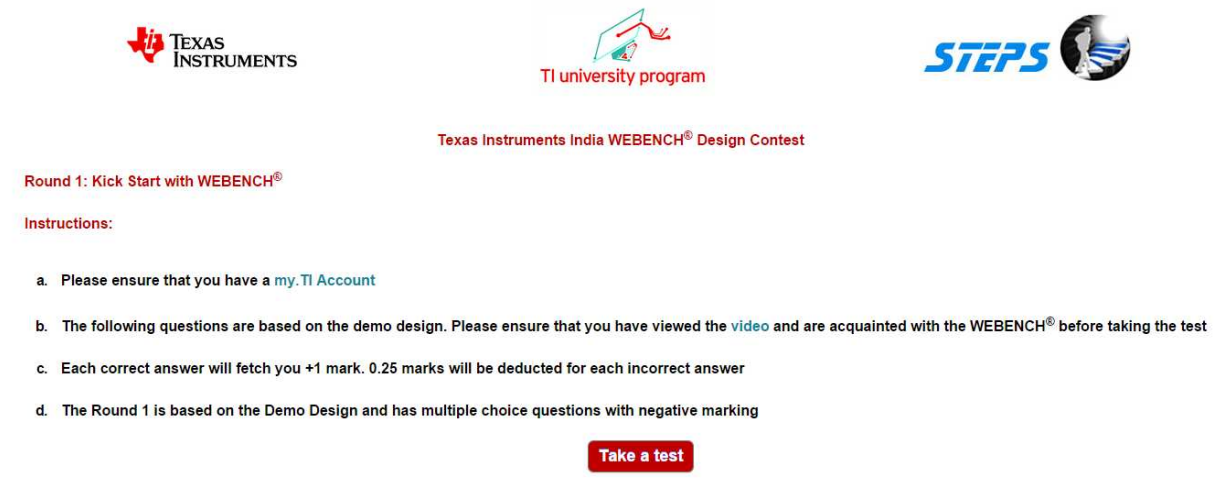
PROCEDURE TO ATTEND TEXAS INSTRUMENTS INDIA WEBENCH® DESIGN CONTEST ROUND 1

STEP 1 : Click On **Start Here**



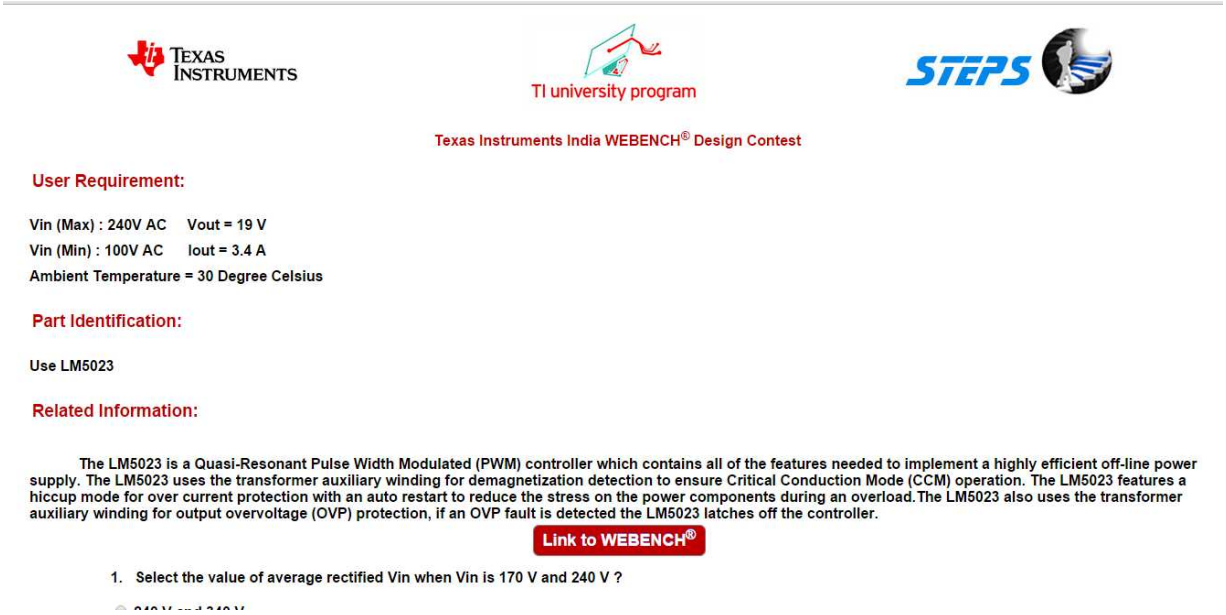
STEP 2 : Enter Your Email and Password and then click Submit

STEP 3 : Round 1 Instructions page displayed



STEP 4 : Read the Instructions carefully and click Take a test

STEP 5 : The multiple choice questions (Round 1) window appears



Texas Instruments India WEBENCH® Design Contest

User Requirement:

Vin (Max) : 240V AC Vout = 19 V
Vin (Min) : 100V AC Iout = 3.4 A
Ambient Temperature = 30 Degree Celsius

Part Identification:

Use LM5023

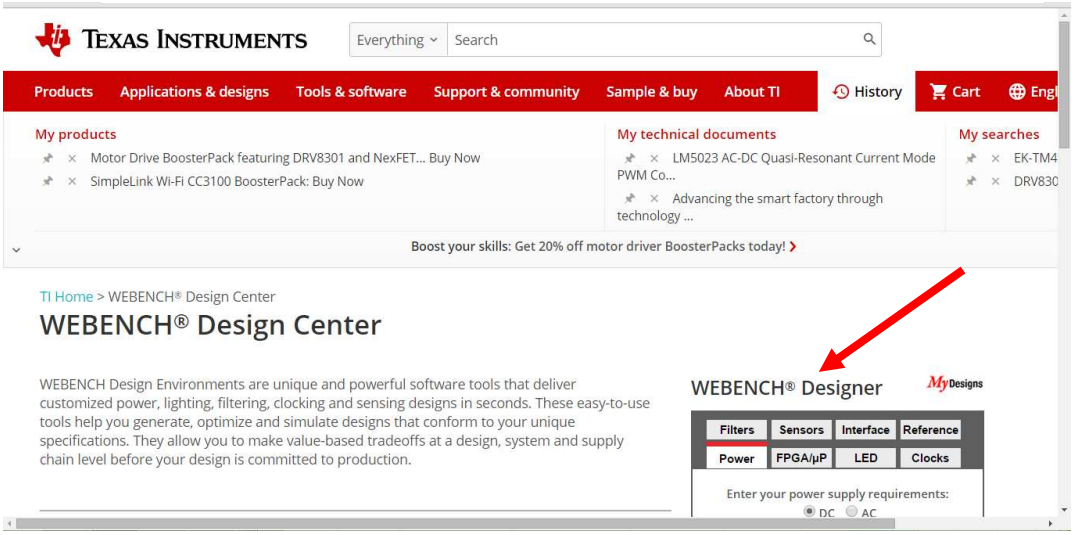
Related Information:

The LM5023 is a Quasi-Resonant Pulse Width Modulated (PWM) controller which contains all of the features needed to implement a highly efficient off-line power supply. The LM5023 uses the transformer auxiliary winding for demagnetization detection to ensure Critical Conduction Mode (CCM) operation. The LM5023 features a hiccup mode for over current protection with an auto restart to reduce the stress on the power components during an overload. The LM5023 also uses the transformer auxiliary winding for output overvoltage (OVP) protection, if an OVP fault is detected the LM5023 latches off the controller.

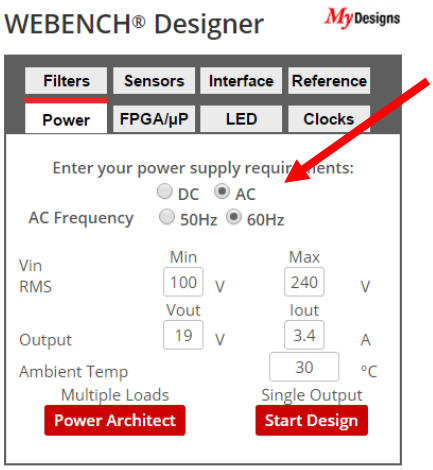
Link to WEBENCH®

1. Select the value of average rectified Vin when Vin is 170 V and 240 V ?

STEP 6 : Click Link to WEBENCH® to workout

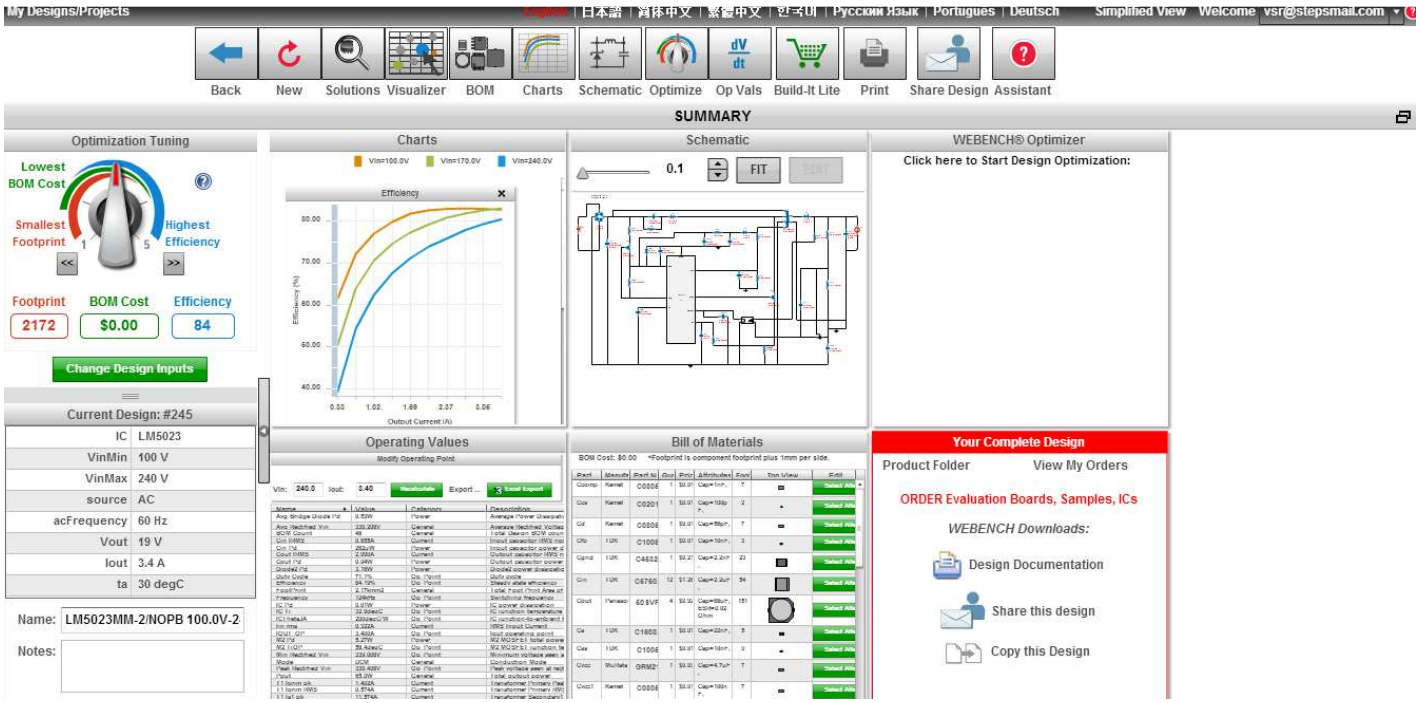


STEP 7 : Enter the user Requirement parameters and click Start Design



STEP 8 : VISUALIZER Screen opens as shown below and click the Part LM 5023 to download the Data sheet

STEP 9 : Open Design (you need to use your my.ti.com username and password) and the following screen WEBENCH Summary screen appears.



STEP 10 : Answer the questions using various menus such as OP Values, BOM Charts and Data sheet then press submit for submitting the results

STEP 11 : The below window appears