

Certification Test

U1000 Features and Benefits – eLM.U1000.01 – CT.U1000.01



Taking the Certification Test

No demo unit is needed to take this test. Please record all answers on this answer sheet. Multiple-choice questions have **only one** correct answer, except where noted otherwise. Choose the best answer for each question.

A passing score is 90%.

Returning the Certification Test

Option 1: Fax this page to **Yaskawa Technical Training Services** at (847) 887-7185.

Option 2: E-mail the answers and **all** contact info below to training@yaskawa.com.

Receiving Your Score

You may review your answers only if a passing score is received. When the test is taken during class, you will receive your score as soon as it can be graded. When taken as a CLEP test or pre-requisite enrollment test, contact Technical Training Services via email or phone to receive your score.

Answer Sheet:

1. _____	6. _____
2. _____	7. _____
3. _____	8. _____
4. _____	9. _____
5. _____	10. _____

Contact Information:

Name: _____ Title: _____

Company: _____ Email: _____

Address: _____

Phone Number: _____ Fax number: _____

Supervisor's Name/ Title: _____

Name of Yaskawa Rep: _____

Test Date: _____

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1. The U1000 uses _____ bidirectional switches, which allow energy flow in both directions.
 - A. 3
 - B. 6
 - C. 9
 - D. 12

2. Current harmonics are mitigated with the U1000 by...
 - A. Direct AC-AC conversion
 - B. Eliminating the input diode bridge
 - C. 9 bidirectional switches
 - D. All of the above

3. Eco-mode
 - A. Activates when the motor is running near 100% speed (line frequency)
 - B. Is the U1000's regenerative function
 - C. Works with the real time clock for custom start and stop times

4. The U1000 eliminates Overvoltage faults caused by regenerative loads.
 - A. True
 - B. False

5. The main circuit wiring of the U1000 consists of just 3 wires in and 3 wires out.
 - A. True
 - B. False

6. The U1000 requires which of the following external components?
 - A. Sine Wave Filter
 - B. Reactor
 - C. Multi-pulse Transformer
 - D. Multi-pulse Rectification
 - E. None of the above

7. The U1000 meets IEEE-519.
 - A. True
 - B. False

8. The power monitors on the U1000 can display
 - A. Electrical power consumed
 - B. Regen power produced
 - C. Power rate, showing real time savings
 - D. All of the above

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9. There are 100 KAIC semi-conductor fuses built into the U1000
- A. True
 - B. False
10. The key benefits of the U1000 are
- A. Energy savings/regeneration
 - B. Low harmonics
 - C. Near unity power factor
 - D. Greater system efficiency
 - E. Compact design
 - F. Variable 3-level output
 - G. Expanded motor control
 - H. All of the above