

Certification Test

Z1000U Features and Benefits

YASKAWA

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: _____

1. The Z1000U 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 Z1000U 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 Z1000U's regenerative function
 - C. Works with the real time clock for custom start and stop times
4. The Z1000U eliminates faults and high starting current caused by the windmill effect.
 - A. True
 - B. False
5. The main circuit wiring of the Z1000U consists of just 3 wires in and 3 wires out.
 - A. True
 - B. False
6. The Z1000U 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 Z1000U meets IEEE-519.
 - A. True
 - B. False
8. The power monitors on the Z1000U can display
 - A. Electrical power consumed
 - B. Regen power produced
 - C. Power rate, showing real time savings
 - D. All of the above

9. There are 100 KAIC semi-conductor fuses built into the Z1000U
- A. True
 - B. False
10. The key benefits of the Z1000U are
- A. Low Harmonic Distortion
 - B. Energy Savings
 - C. Serviceability
 - D. Space-Saving Design
 - E. All of the above