



**Low Harmonics
Regenerative
Matrix Converter**



2015
Grand Prize for
Excellence in
Energy
Efficiency and
Conservation
(Product Category &
Business Model
Category)
Sponsor: The Energy
Conservation Center,
Japan

U1000

All-in-One Motor Drive
Evolved matrix converter features functions of AC Drives,
power regeneration power factor improvement and low
harmonics solutions



**The Green Drive
for Pump and Fan
Applications**



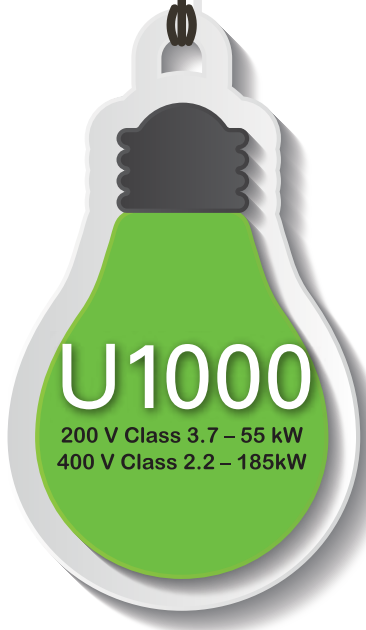
E1000

The Green Inverter
Proven to be energy efficient, meeting customers' needs for
environmental protection and quality, material performance
and other specific green features

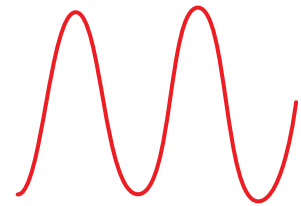
**USE ENERGY
EFFECTIVELY!**

Save energy by using energy efficient drives
Yaskawa answers your company's needs and
market requirements

Low Harmonics The Pursuit of Power Quality



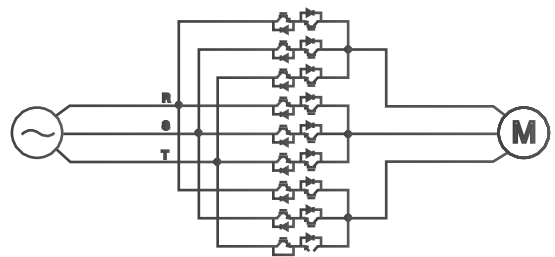
Power Supply
Current Waveform



Power Supply
Current Waveform

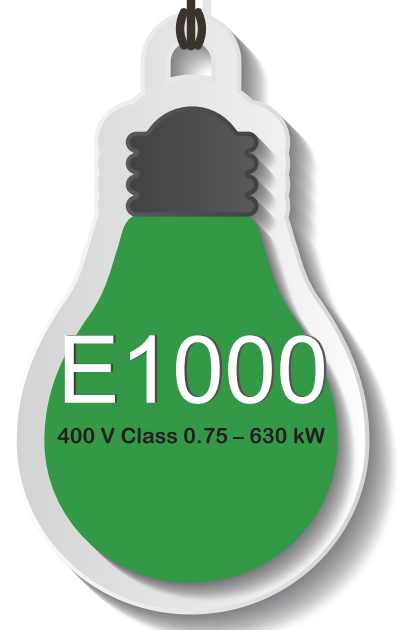
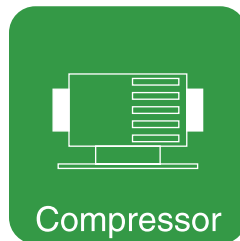
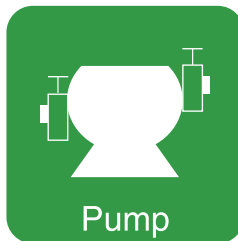
[What is a Matrix Converter?]

A matrix converter is AC/AC converter which consists of 9 bi-directional switches that are arranged in a matrix. It converts a three-phase AC power supply directly into the required voltage and frequency.



Simple and Compact Drive for Fan, Pump and HVAC

Power Regeneration



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LITERATURE NO. YSP-G-U1000-E1000-1
Published in November 2016