

YASKAWA



U1000 **Free Standing Panel** Low Harmonics Regenerative Matrix Converter

yaskawa.eu

A class of its own

The U1000 is a highly efficient variable frequency drive (VFD) based on latest matrix converter technology. With full power regeneration capability, the U1000 offers great energy saving potential while sinusoidal input currents and a power factor close to one reduce stress on grid components like transformers and power lines.

The flexible and individually configurable panel is ideal for all new and existing systems that are state-of-the-art.

Innovative matrix technology

Embedded low harmonics and regenerative performance

Energy saving 4Q operation

Unique electronic bypass at grid frequency

Functional safety built-in

Cost saving

Clean power







Time saving installation



Simple operation

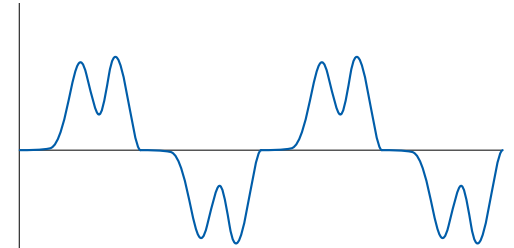
- Pre-configured solution
- IEEE-519 low harmonic compliant (<5% THD)
- No DC bus capacitor - less parts, less maintenance
- Low input distortion across a wide load and speed range
- Integrated input fusing provides (100kA SCCR)
- Designed and manufactured in Europe
- Made for a rough environment

Network communication

- Built-in:
 **Modbus**
- Optional:
 **EtherCAT**,  **EtherNet/IP**,
 **PROFINET**,  **Modbus TCP/IP**,  **PROFIBUS**,
DeviceNet

Clean grids

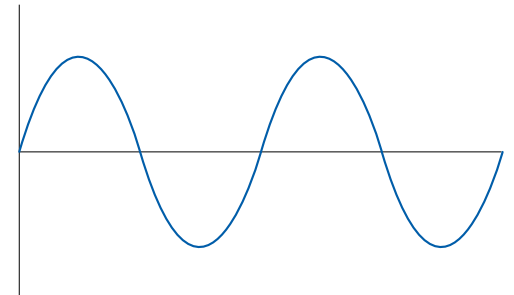
Standard AC drive



88%
Current distortion

0.75
Power factor

Matrix converter U1000



3 – 5%
Current distortion

0.98
Power factor

Configuration

- U1000 with internal line filter (C2 class)
- Protective class IP54
- Start/stop push button in the door

Options

- 200mm enclosure base
- Control cabinet lighting
- Motorized circuit breaker
- Contactor
- Horn
- Energy meter
- Voltmeter and ampmeter
- Lockable door handles

Catalog code

FSP4 - U1K - 930 C 20 50 0 80 1 1 A 0000

Ratings

Model Code	Max appl. motor power [kW]		Rated output current [A]		Dimensions [mm]			Weight [kg]
	HD	ND	HD	ND	W	H	D	
180	75	90	156	180	1400	2230	630	680
216	90	110	180	216				680
240	110	132	216	240				680
302	132	160	240	302	1800	2430	630	825
361	160	185	302	361				850
414	185	200	361	414				850
477	200	250	414	477	2400	2500	630	1350
590	250	315	477	590				1400
720	315	355	590	720	4000	2500	630	2000
900	355	400	720	900				2000
930	400	-	900	930				2000



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YEU_INV_U1000PS-4p | EN | v1

09/2025

Specifications are subject to change without notice
for ongoing product modifications and improvements.
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