

# EURa Drives

softstarter • inverter • controller

## PRODUCT BROCHURE

ENGLISH

ver. 01/2019

[www.hfinverter.com](http://www.hfinverter.com)

**EURa**<sup>®</sup>  
DRIVES



## HF INVERTER Poland

is Exclusive Business Partner  
of EURA Drives in Europe

more than 2000m<sup>2</sup> office,  
development, training and  
stock.



## EURA Drives China

85000m<sup>2</sup> production areas  
with 8 SMD mounting  
machines, we produced

more than 500000 pcs  
inverters in 2017.



## up-to-date production facilities

and 1200 highly motivated  
employees

worldwide contribute to the  
drive development,  
production, sales and service.





## DRIVE + MOTOR

for retrofit and high efficiency applications



**E800**  
0.4kW - 90 kW

Economical IP20, IP21, HVAC frequency inverter for ac induction motor and permanent magnet conditions



**EM30**  
0.4 kW - 11 kW

Decentralized drive solution for hard conditions



**E2000**  
0.4 kW - 400 kW

High performance inverter for all your needs



**E600**  
0.4 kW - 5.5 kW

the compact and economical AC drive



**EP66**  
0.4 kW - 90 kW

the rugged stand alone AC drive with more protections

## PUMP INVERTER

0.4 kW - 400 kW

comprehensive special pump software built into each drive as standard, no need of external master controller. PID control concept, multi-set point, cascade control pump staging, solar function, well pump control, level control, Dry run protection and leakage detection function are all in one drive inclusive.



**E2100P**  
0.4 kW - 400 kW

- IP66 remote keypad
- AC, PM motor control
- built in EMC Filter



**EM30P**  
0.4 kW - 11 kW

- built in realtime clock
- full Alu enclosure
- IP67 protection, direct motor mounted



**EP66P**  
0.4 kW - 90 kW

- IP66 stand alone inverter
- Optional built in C1 EMC Filter
- Optional main switch, potentiometer

## SOFTSTARTER

HFR 1000 15 kW - 500 kW



### HIGHLIGHTS:

For smooth start of any kind of asynchronous motors, reduction of inrush current and mechanical stress.

Startup control mode:

- Current mode: Start ramp at defined current limit
- Voltage mode: Startup at defined voltage ramp
- Boost function

Startup control mode:

- Free stop by inertia
- Stop controlled by voltage ramp

Controlmode: - Keypad, terminal, MODBUS

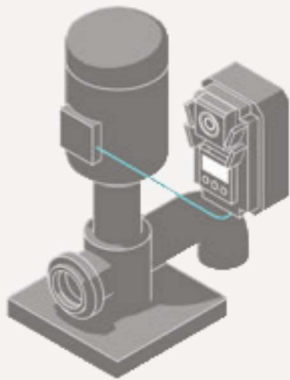
Startup control mode:

- Programmable I/O channels
- Integrated LED display, to set parameters and to display drive status

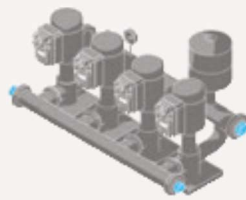
# PUMPS CONTROL SYSTEM

— EURA Drives Smart pump software for all EURAAC drives

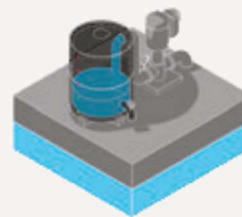
**NEW PRODUCT  
OF 2019**



**SINGEL PUMP**



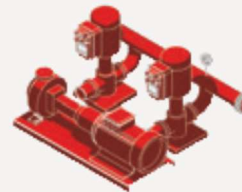
simple control mode



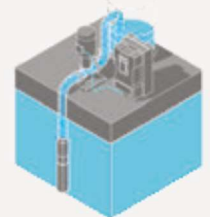
Level control mode



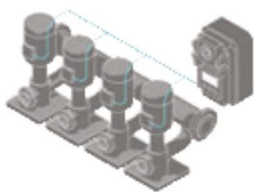
Solar control mode



Fire mode



Well pump control mode



Regulated no rotation

Regulated rotation by time

Regulated rotation by sleep

**MULTI PUMP  
REGULATED + FIX**



Fix regulated

Multimaster regulated by time

Multimaster regulated by sleep

**MULTI PUMP  
ALL REGULATED**

## PROTECTION FUNCTIONS



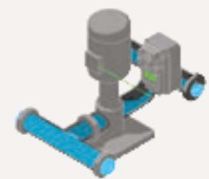
**Leakage Detection**

## PROTECTION FUNCTIONS



**Dry Run Protection**

## PROTECTION FUNCTIONS

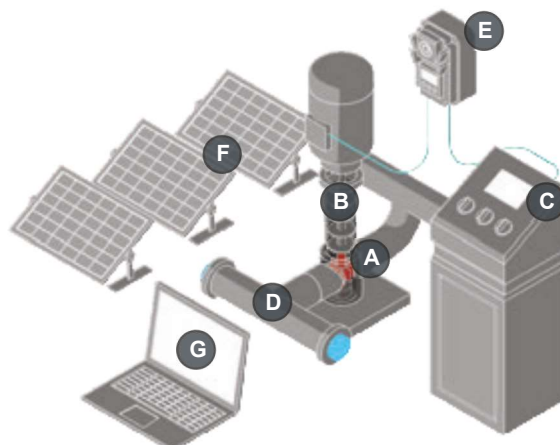


**Filling Protection**

# AUXILIARY

— EURA Drives Smart functions

those functions help the customers to make the services for pumps easier. The life time of pumps will be also extended by using of the functions.



<b>A</b>	Water Flow Detection
<b>B</b>	Pump Cleaning
<b>C</b>	HAND / AUTO Control
<b>D</b>	Antirust & Antifreeze
<b>E</b>	Time Control Mode
<b>F</b>	Autotuning Solar Pump
<b>G</b>	User Macro

# APPLICATION

— the EURAAC drives are widely used in many applications



## EP66 90kW

Deep well pump drive (up to 150m).  
Multiple pump stages for irrigation water supply on different levels.  
Suitable for decentral power supply (genset), due to low startup current.  
For outdoor use (with shadowing).

**Location:** north of italy



## Pump inverter EM30P used for pump booster station

**Location:** Germany



## EURA IP20 inverter E2000 used for multi-ventilator

**Location:** Germany



## EP66 used for ventilator 7.5 kW with built in C1 EMC Filter

**Location:** Germany

## EM30 used for Ventilator in high temperature kitchen

Direct mounted on the motor terminal box, short motor cabling, reduced EMV problems, no shielded motor cables required. Compact design, high protection degree, robust full aluminium construction. Ready for installation in industrial and residential area (C1 filter as internal option available) For critical operating conditions (Heat, dirt/dust, humidity, vibration)

**Location:** Germany



## High frequency inverter with high protection degree: IP66 Frequency range up to 1300 Hz Customer specific solutions up to 15 kW

**Location:** Slovakia



Compact blower/vacuum unit, inverter mounted directly on the motor, high protection degree. Short motor leads, no shielding required, reduced EMC problematic.

**Location:** Germany



## EP66 with Add on box

Modular enclosure expansion of the EP66 drive: Stainless steel box for different customer specific add-on components, like I/O filters (sinus), chokes, selective motor protection- / bypass switches. Easy to assembly, EP66 protection degree. To order on customers specification, for low quantity as well.

**Location:** Germany



## E2000 400kW

High horsepower inverter in cabinet (up to 800 kW).  
Protection degree IP4x.  
PFC DC-link choke as standard.  
Optional mains switch.  
To configure with various customer specific options.

**Location:** Germany



**HF INVERTER**  
**Poland**

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