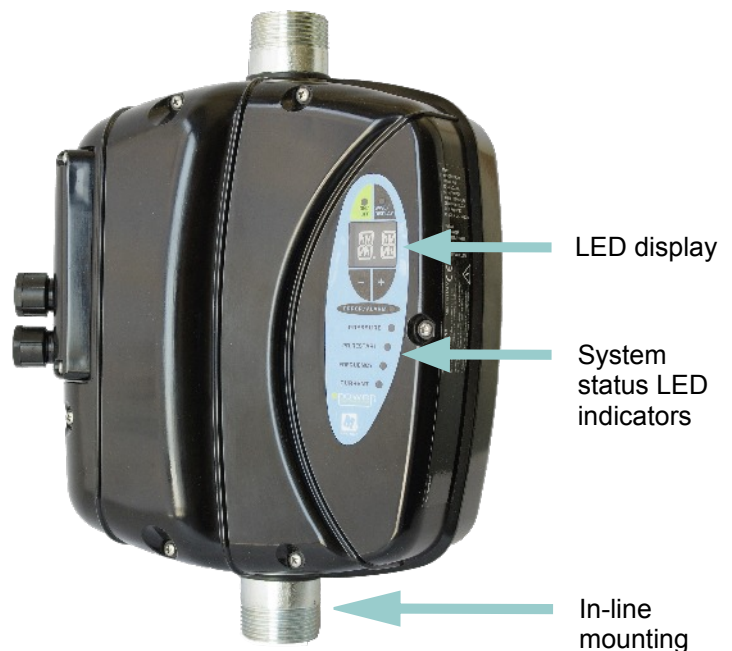


E-Power – Compact water cooled inverter

Variable speed pressure control for single or three phase pumps

- **Varies Pump Speed to Match Demand**
- **Ideal for Booster Pump Sets**
- **Energy Saving**
- **Programmable Restart Pressure**
- **Simple In-Line Fitting**
- **Water Cooled**
- **Vertical Or Horizontal Mounting**
- **Can be Linked with Other E-Power Units Via Integrated CANbus Interface (*E-Power Adv Only*)**
- **IP65 Ingress Protection**



How Does It Work?

Mac3 E-Power is an in-line pipe mounted variable speed inverter. **E-Power** is constructed around a stainless steel pipe and pressure sensor without non-return valve or any other flow obstruction resulting in increased system efficiency and superior reliability due to excellent self-cooling characteristics. The stainless steel mounting pipe ends with a 1" male BSPT thread on each end, allowing direct connection into your pump system with ease.

E-Power features a single phase supply with either single phase or three phase 230VAC output, depending on the Epower model, see table for details.

The option of single and three phase variants will allow for **E-Power** to control 3 phase pumps over a greater speed range even where only a single phase supply is available.

E-Power comes in two variations, **E-Power Std**, and **E-Power Adv**.

E-Power Std can control a single pump with variable speed, while a secondary pump can also be activated in an on/off only mode to supplement the main pump as needed.

E-Power Adv controls one directly connected pump, and up to seven additional pumps all at variable speed through the use of multiple slaved **E-Power Adv** controllers. Slave units communicate with one another using **CANbus** protocol, a serial communications standard which is highly immune to environmental interference.

E-Power Adv can also use *Multimaster* mode. This allows connected **E-Power Adv** units to be promoted to the role of 'master' as needed, ensuring continued operation in the event of any single controller failure.

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Technical Specifications	
Physical	
Material	PA6 FV
Weight	2 Kg
Dimensions	330x300x150mm
Mounting	In Line (Vertical or Horizontal)
Input / Output	1¼" (31.75mm) Male BSPT
Environmental	
Ingress Protection	IP65
Operating Temperature	4°C – 40°C
Operating Pressure Range	0.3 - 8 bar
Maximum Overpressure	12 bar
Operating Temperature	0°C – 50°C
Fluid Type	Clean Water - No Solids - pH 5 - 9
Features	
Display	2 Digit Alphanumeric LED
Pressure Set Point	0.3 – 8 bar
Protection	Dry Running, Low/High Power Supply, Short-circuit, Over-current, Thermal Overload, Insufficient Pressure, Water Hammer, Pressure Sensor Malfunction
Output Frequency	5 – 100 Hz
Acceleration Time	1.5 – 5 Seconds
Standards Compliance	
Electrical Safety	EN60335
Electromagnetic Compatibility	EN61000 (Specific Norms In CE Certificate)

Electrical Specifications		
E-Power MM	E-MM08 Std	E-MM08 Adv
Supply Voltage	230Vac (170 – 270 Vac) Single Phase	230Vac (170 – 270 Vac) Single Phase
Maximum Phase Current	8A	8A
Maximum Pump Power 230Vac Single Phase	1.1kW (1.5hp)	1.1kW (1.5hp)
Inputs	1	1
Outputs	1	1
Multiple Pumps	2 (1 variable speed, 1 fixed speed)	8 (up to 7 slaved inverters)
E-Power MT	E-MT10 Std	E-MT10 Adv
Input Voltage	230Vac (170 – 270 Vac) Single Phase	230Vac (170 – 270 Vca) Single Phase
Output Voltage	230Vac (170 – 270 Vac) Three Phase	230Vac (170 – 270 Vca) Three Phase
Maximum Phase Current	10A	10A
Maximum Pump Power 230Vac Three Phase	2.2kW (3hp)	2.2kW (3hp)
Inputs	1	1
Outputs	1	1
Multiple Pumps	2 (1 variable speed, 1 fixed speed)	8 (up to 7 slaved inverters)

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Variable speed pressure control for single or three phase pumps

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