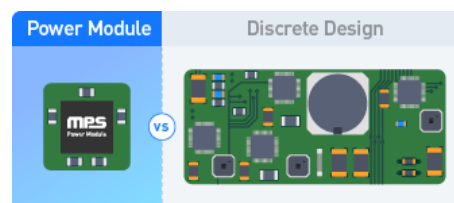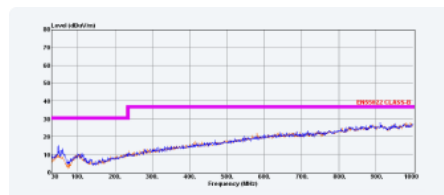# Power Modules

MPS Power Modules offer superior performance and size advantages when compared to other industry leading solution. The monolithic design allows for faster switching frequency, which leads to ultra fast transient response and size reduction. Our high efficiency and advanced packaging make thermal design easy.
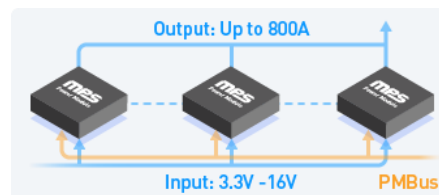

Small Size & Ease of Use

✅ **Minimal extrenal components**

✅ **Easy layout**

✅ **Fast design cycle**

Low EMI
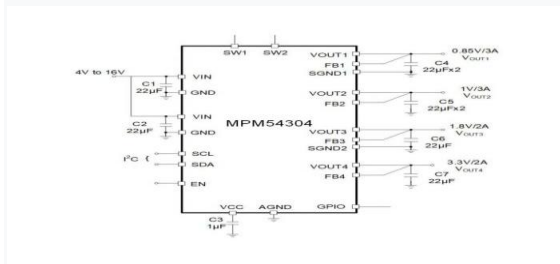
✅ **Meets EN55022 Class B**

✅ **EMI standard**

Scalability & Programmability

✅ **I2C & MTP**
✅ **Graphic user interface available**
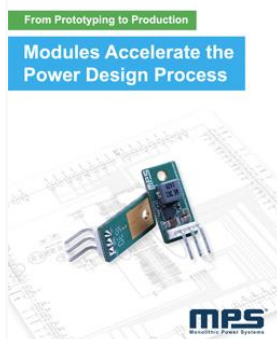
Module of the Month

Quad 12V Power Module

The MPM54304 is a complete power management module that integrates four high-efficiency, step-down DC/DC converters, inductors, and a flexible logic interface. This COT control DC/DC converter provides fast transient response. Its default 1.5MHz switching frequency greatly reduces external capacitor size. Full protection features include UVLO, OCP, and thermal shutdown.

MPM54304

eBook: From Prototyping to Production Modules Accelerate the Power Design Process

The electronics industry is evolving and these changes are having a big effect on the power design market. Design engineers are now seeing how modules can provide benefits over traditional discrete designs. Modules from Monolithic Power Solutions (MPS) can further add to the competitive advantages of power modules, such as ease of design, cost effectiveness, efficiency and size, with the additional benefits of higher performance from the company's own market-leading ICs, higher modular integration leading to easier PCB layouts, and drop-in solutions that require no design work.

Power Module Family

MPS power modules are ultra-efficient and easy-to-use. The modules integrate the maximum number of components, including the inductor, in a single package while still providing comprehensive flexibility for the designer to configure the device's attributes. This accelerates the design process and helps bring products to market faster. Our modules are used by the largest OEMs worldwide for Industrial, IoT, Auto, Medical, Telecom, Robotics, and more