The Flexibility of User-Configurable and Modular Power Solutions

Modular power supplies provide many advantages to system designers, especially during the R&D phase of their design and give much flexibility when faced with demanding, complex and critical applications.
In many cases system designers require multiple different DC outputs to supply power to various parts of a new system. Modular power supplies consist of a front end which interact with a variety of output modules to provide design engineers with as many as sixteen isolated output voltages, which can be individually adjusted to exact specifications, all from one single power solution.
Rather than utilising multiple single and fixed output power supplies or undergoing a lengthy and expensive custom design process, designers can instead use a modular power supply and configure a very specific solution in a matter of minutes. Any changes to this modular power solution can be easily achieved by changing any number of output modules which allows designers to optimise their applications in the shortest possible timeframe.
These tailor-made power solutions are fully safety approved and outputs can be connected in series or parallel to facilitate higher voltage or power requirements. Power distribution cabling is significantly reduced which further aids designers to meet stringent EMI requirements whilst also simplifying assembly processes.
Modular power solutions further offer significant space saving, reliability and performance advantages and when combined with expert technical support, designers have added peace of mind when facing challenging product design or time to market pressures.
With Vox Power you can design a fully, safety-approved multiple output power solution that can be configured instantly to unique specifications.
Vox Power design and manufacture unique and highly efficient modular and conduction cooled power solutions with advance features, specialising in high-density power solutions that can fit into compact spaces for demanding applications that are not easily solved with commodity type AC/DC products.
Vox Power's range of modular solutions include 600W, 1200W, low-noise fan alternatives or fan-less conduction cooled options, offering unlimited possibilities.

600W | 1200W NEVO+ Modular Power Series

Vox Power's NEVO+ power series offer system designers a flexible power solution where size, weight and power density are key considerations.
It offers multiple output voltages and power options that can be configured in minutes to suit virtually any application. Customers can choose from a variety of output modules to provide up to 16 isolated outputs to meet the exact requirements of the application.
The NEVO+600 weighs only 600 grams and its compact 5" x 3" x 1.61" package delivers up to 600 Watts, equating to a power density of 25 Watts per cubic inch. The NEVO+600 input module can accommodate up to four isolated output modules, ranging from 75W dual output to 150W or 300W single output, which can easily be configured into a high power 5"x 3" single output power supply or a multiple output power supply with up to eight isolated outputs.
The NEVO+1200 delivers up to 1200W from a 6" x 6" x 1.61" package weighing only 1.2kg when fully configured. The NEVO+1200 consists of an input module with up to eight output modules ranging from 75W dual output to 300W single output. These outputs can be fitted without restriction in any combination to create a power solution with up to sixteen isolated outputs.
Key features include intelligent fan control providing optimised airflow for various load and temperature conditions, wide output voltage adjust capability, parallel and series connection of modules and an isolated 5V 1A bias supply.
A low noise fan option is available for use in even the quietest of environments and our recently released A2 and A3 300W single output modules provide for simplified connectivity, increased system reliability and reduces overall system cost.
Medical approvals for NEVO+ series include EN/IEC/ANSI 60601-1 for safety and EMC EN60601-1-2 4th edition for EMC immunity. Applications include diagnostic systems, medical robotics, dialysis / peristaltic pumps, laboratory and analysis equipment, incubators and many others where high-power levels are needed in a small space.
Data Sheet and demonstration video are available.

600W VCCM600 Modular Conduction Cooled Power Series

Vox Power's VCCM600 conduction cooled configurable power supply series combines the advantages of a modular power supply with the high reliability of a fan-less architecture and offers unrivalled performance and flexibility. The VCCM600 series delivers a silent 600 Watts, and up to 750 Watts of peak power for 5 seconds, in a rugged 4" x 7" x 1.61" package. The VCCM600 is the ultimate power solution for demanding medical, industrial, lighting and military applications where reliability, multiple output voltages, user controllable functions and audible noise are of utmost concern.

The VCCM600 series can accommodate up to 4 isolated DC output modules with outputs from 1.5 to 58VDC at 150 Watts per channel. Each output module is produced using 100% SMT components to ensure minimal touch which in turn ensures long term reliability. Each VCCM600 series module can be connected in parallel or series to achieve higher power or voltage levels which can be controlled using the on-board signal functionality. Additional features include a standard 5V/1A bias supply, selective conformal coating, programmable start-up, standby power operation and a standard 5-year warranty.

The VCCM600 series unique design approach and heat dissipation techniques allow the unit to be mounted in virtually any orientation giving system designers greater flexibility. The series is compliant with multiple military shock and vibration standards, complies with Semi-F47 and is still the only modular conduction cooled power solution available in the market.

It is approved to the latest medical and industrial safety standards and features market leading specifications and design in application support.