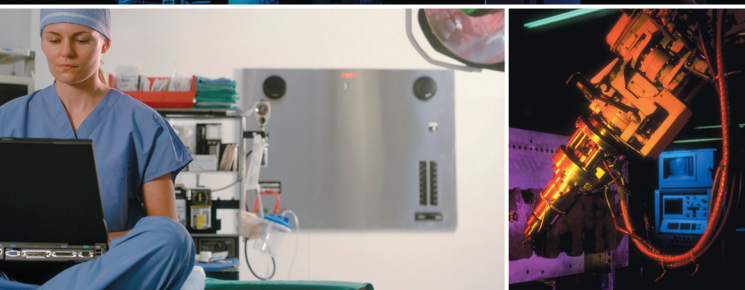


Configurable Digital Programmable Power Supplies



Key features

- Full medical approval to EN60601-1 Type B
- Intelligent I²C control
- Configurable current share on all outputs > 10 A
- Voltage adjustment on all outputs - manual or via I²C
- Configurable ac OK and dc OK signals & indicators
- Configurable inhibit/enable
- Configurable output up/down sequencing
- Intelligent fans - speed control/fault status
- Customer-provided air option
- Processor-controlled PFC input with active inrush protection
- I²C monitoring of voltage, current & temperature (IPMI-compliant)
- Programmable voltage, current limit & inhibit/enable via I²C
- Optional extended power hold-up module (SEMI F47-compliant)

Suitable application areas

- Medical and laboratory equipment
- Test and instrumentation
- Telecommunications
- Production and process control
- Military and aerospace
- Data storage systems

Flexible digital power. Just another reason why Emerson Network Power is the global leader in enabling *Business-Critical Continuity*[™].

- AC power
- Connectivity
- DC Power
- Embedded Computing
- **Embedded Power**
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

Emerson Network Power

Key sales and marketing facilities

USA: Carlsbad, California
UK: Dudley, West Midlands
The Netherlands: Ede
Germany: Augsburg
Italy: Milan
China: Hong Kong
Japan: Tokyo

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Europe (UK): +44 (0) 1384 842 211
Asia (HK): +852 2176 3333

Technical support

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UK (in country): (0) 8000 321 546
Europe (mainland): +44 (0) 800 032 1546

www.powerconversion.com/imp



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Emerson Network Power's iMP™ digitally programmable modular ac-dc power supplies are the last word in flexibility. Flexibility that you need every time you specify, commission or replace a power supply.

Gone are the times when multi-output fixed-function power supplies made sense. Today's short design-to-manufacture timescales, narrow market windows and whole-life cost reduction goals demand adaptability at all levels - especially in power provision.

iMP power supplies are modular and digitally programmable. You can configure the ideal unit of your choice - and even change your mind later, to accommodate unforeseen or new power requirements. Then you can set it up to do exactly what you want, when you want, via an easy-to-use PC-based GUI.

- 6 types of power module - including single, dual & triple output units
- 25 standard output voltages, from 2 Vdc to 60 Vdc
- Up to 1,500 watts & 21 separate outputs from one power supply
- Optional power hold-up and Oring modules
- Full medical approval to EN60601-1 Type B
- Advanced PMBus™ digital monitoring & control functions



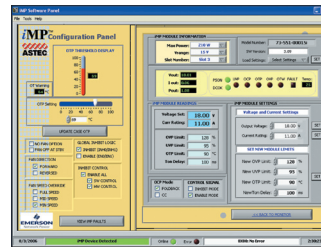
■ **Specify iMP power supplies and gain the last word in flexibility.**

Intelligent digital control

All iMP ac-dc power supplies are fully programmable. Both the case and the individual power modules feature integral microcontrollers to maximize control flexibility. And all communication between the host controller and the power supply is handled via I²C bus, using the standard PMBus protocol.

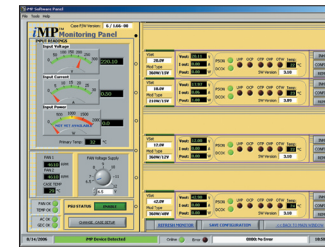
The control software supplied with every iMP power supply runs under Windows® on any standard PC, using Microsoft's .NET™ framework. It uses a highly intuitive, easy-to-use graphical user interface.

Configuration made easy

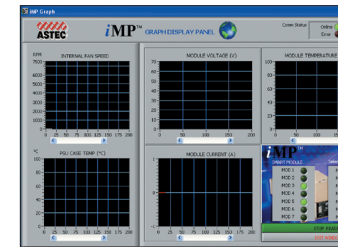


Setting-up an iMP power module could not be simpler. The same control screen is used for all modules and all operating parameters. So as well as defining a module's output voltage and current, you can just as easily adjust its OVP, UVP and OTP limits, change its OCP mode and control signal, and force fan speed override if required. All with clear on-screen confirmation and feedback.

Real-time monitoring



iMP control software offers exceptionally powerful real-time monitoring facilities. A single screen conveys all status information, to provide at-a-glance performance confirmation for the entire power supply, including the case and all its constituent modules. The monitoring screen displays correlated functions as sub-panels to ensure easy, unambiguous visual interpretation.



You can monitor data numerically and graphically - at the same time, if you wish. The graphical display uses color-coded analog-style presentations to show the voltage, current and temperature of individual modules, as well as fan speed



Output module line-up

Module code	1	2	3	5	4	None			
Module type	Single	Single	Single	Single	Dual	Triple			
Max output power	210 W	360 W	750 W	1,500 W	144 W	36 W			
Max output current	35 A	60 A	150 A	140 A	10 A	2 A			
Output voltages available*	2-60 V	2-60 V	2-60 V	6-60 V	2-28 V 2-28 V	8-15 V	8-28 V	2-28 V	
Standard voltage increments	25	25	25	20	19		18		
Remote sense	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
Remote margin	Yes	Yes	Yes	Yes	No	No	No	No	No
Voltage programming - I ² C control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Active current share	Yes	Yes	Yes	Yes	Yes	No	No	No	No
Module inhibit - I ² C control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Module inhibit - analog	Yes	Yes	Yes	Yes	No	No	No	No	No
Overvoltage/overcurrent protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Minimum load required	No	No	No	No	No	No	No	No	No
Slots occupied in any iMP case	1	2	3	4	1	1			

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* Programmable

Configuration flexibility

Totally modular in design, iMP power supplies provide you with unsurpassed configuration flexibility. There is a choice of 25 different output voltages, from 2 Vdc to 60 Vdc. As well as single, dual and triple output modules, and six different power ratings. There is even an optional power hold-up module to increase voltage sag ride-through time. Configuring the power supply of your choice has never been easier.