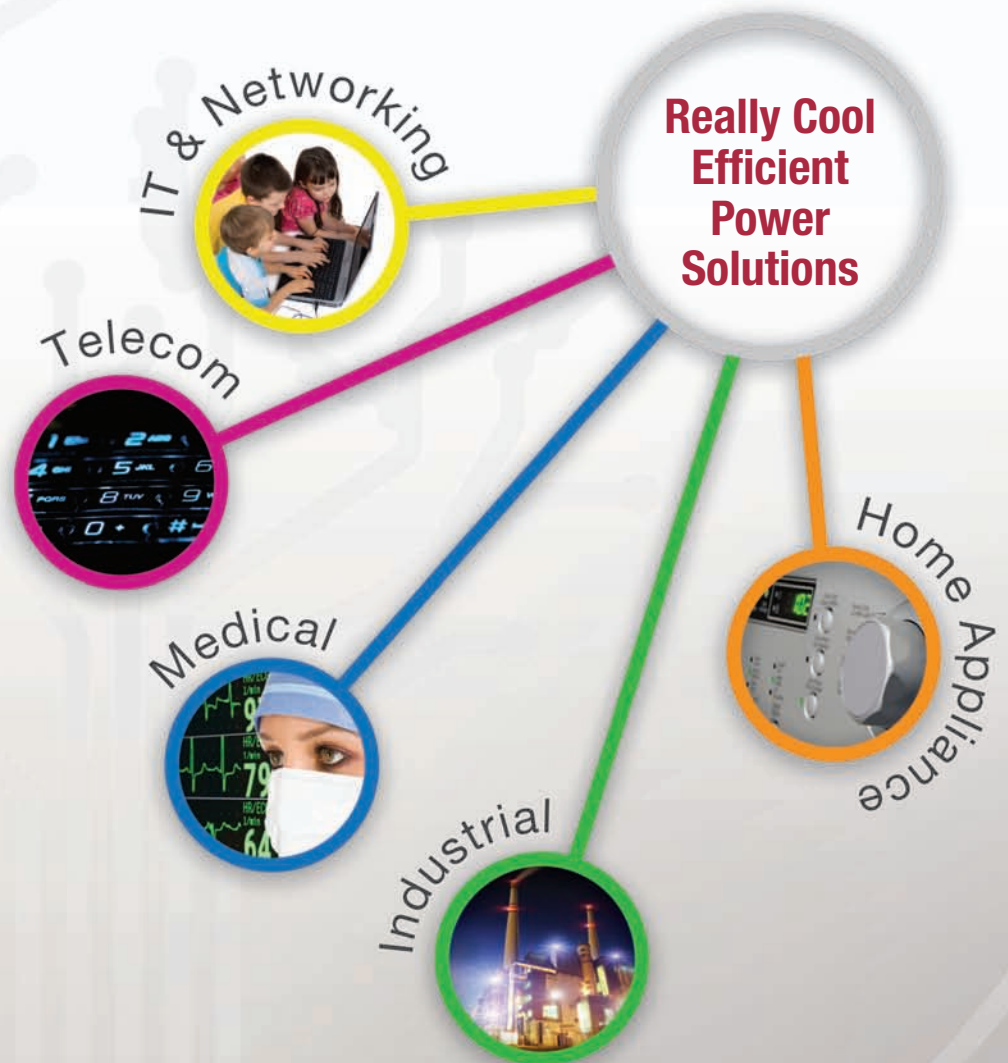


ROAL

living energy

Ultra Compact
Switching Power Supplies



Empowering Human Technologies

roallivingenergy.com



Single Output AC/DC Power Supplies

SFA 160W & 365W Ultra Compact Open Frame

UL/IEC/EN 60950-1 Approvals

APPLICATIONS

- Industrial controls & equipment
- Test & measurement equipment
- Networking gear
- Video, audio & broadcast equipment



160 W
2" x 4" x 1"
(51 x 102 x 26mm)

SFA power supplies are uncompromising power solutions for system designers who need more space for their valuable electronics, and more power as well. These units occupy less than 50% of the typical volume doubling the power density. Don't change your chassis, change your power supply to the SFA series.

BASE MODEL NUMBER	MEDICAL APPROVALS MODEL	MAXIMUM OUTPUT POWER (W/FORCED AIR)	MAXIMUM OUTPUT POWER (CONVECTION)	MAIN OUTPUT VOLTAGE	MAXIMUM OUTPUT CURRENT	AUX 1 V OUT	AUX 2 V OUT
SFA160-US05	MFA160-US05-(2)	100 W	80 W	5 V	20 A	12 V	NA
SFA160-US12	MFA160-US12-(2)	160 W	100 W	12 V	13.3 A	12 V	NA
SFA160-US24	MFA160-US24-(2)	160 W	100 W	24 V	6.66 A	12 V	NA
SFA160-US48	MFA160-US48-(2)	160 W	100 W	48 V	3.33 A	12 V	NA
SFA350-US12	MFA350-US12	365 W	200 W	12 V	30.4 A	12 V	5 V
SFA350-US24	MFA350-US24	365 W	200 W	24 V	15.2 A	12 V	5 V
SFA350-US48	MFA350-US48	365 W	200 W	48 V	7.6 A	12 V	5 V

(-2) Medical Versions of the MFA160 meet class II isolation requirements, eliminating the need for a dedicated earth ground connection.

Aux 1 Output power ranges from 6 to 12W dependent on model and cooling. Refer to the product datasheet for details.

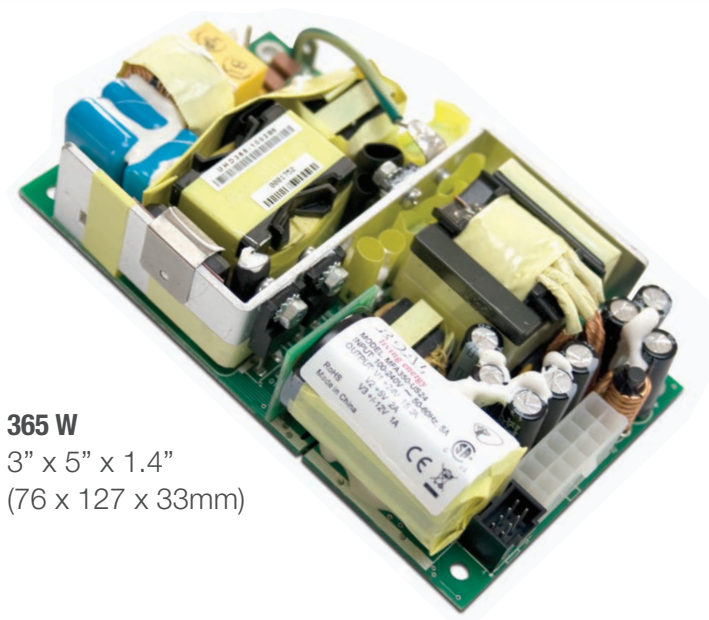
Aux 2 Output power ranges from 5 to 10W dependent on model and cooling. Refer to the product datasheet for details.

MFA 160W & 365W Ultra Compact Medical

UL/IEC/EN 60601-1 Approvals

APPLICATIONS

- Medical devices
- Diagnostic equipment
- Dental equipment
- Laboratory equipment



365 W
3" x 5" x 1.4"
(76 x 127 x 33mm)

MFA power supplies deliver all of the features and benefits of the SFA series along with medical safety approvals.

FEATURES

- Universal input voltage (90-264 VAC)
- Active power factor correction (meets EN61000-3-2)
- Efficiency >90%
- EN55022 class B EMI compliance
- OVP and short circuit protection
- Over temperature protection
- Auxiliary outputs
- ROHS-6 compliant
- CE mark



MORE Power + LESS Warming

Multi Output AC/DC Power Supplies

RCB600 Field Configurable 600W

The RCB Series are modular, user configurable power supplies with unrivalled performance and flexibility. The 600W and 1200W packages are the smallest commercially available configurable power supplies. Each unit consists of a main chassis together with up to eight isolated output modules. The series carries UL60950 and EN60950 safety approvals and complies with EN61000-3, EN61000-4 and EN55022-B EMC standards.

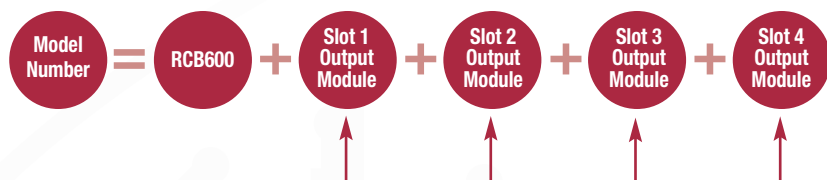


600 W

3" x 5.27" x 1.62"
(76 x 134 x 41mm)
23oz (650g)

FEATURES

- Universal input voltage
- Active power factor correction
- High power density (25W/in³)
- EN55022 class B EMI compliant
- High efficiency up to 90%
- RoHS-6 compliant



SPECIAL CONTROL FEATURES

- Adjustable outputs
- Remote voltage programming
- Remote current monitoring
- I2C control
- Parallel operation
- Accurate wired current share
- N+1 redundancy compatible
- Global 5V 200mA bias supply

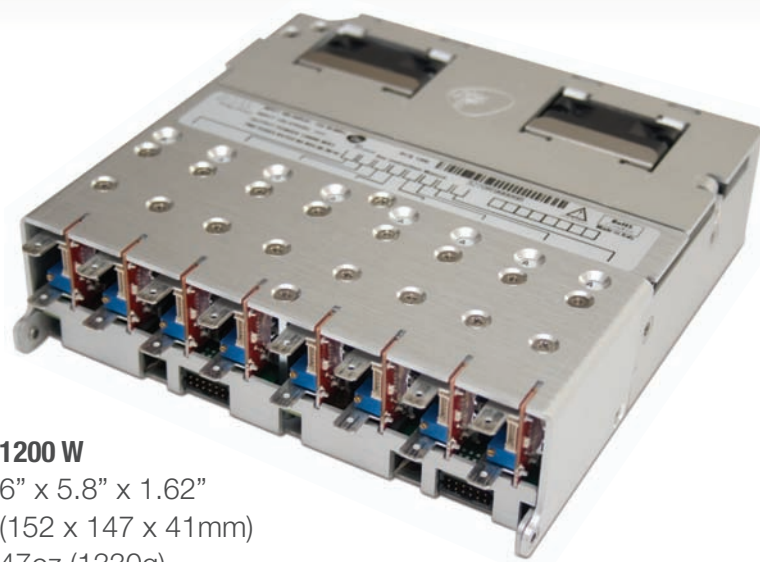


Field configuration is possible without separating any chassis parts. The only removable components are the output modules and the screws

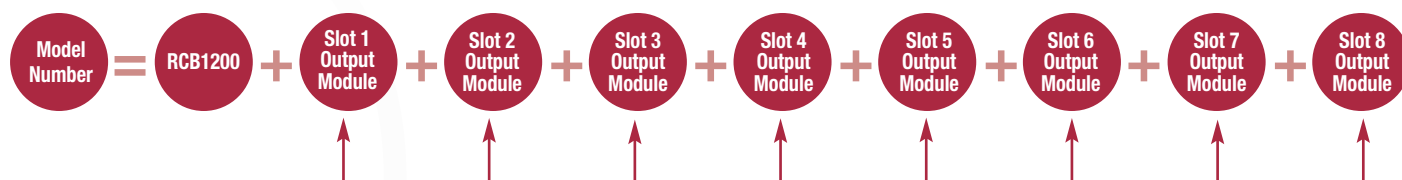
RCB1200 Field Configurable 1200W

APPLICATIONS

- Industrial systems
- Test and measurement equipment
- Communications
- Robotics
- Motion control
- Automatic test equipment
- Security



1200 W
 6" x 5.8" x 1.62"
 (152 x 147 x 41mm)
 47oz (1330g)



OUTPUT MODULE	NOMINAL VOLTAGE	RATED CURRENT	VOLTAGE ADJ.	OUTPUT POWER
A	5V	25A	1.5V to 7.5V	125W
B	12V	15.0A	4.5V to 15V	150W
C	24V	7.5A	9V to 30V	150W
D	48V	3.75A	18V to 58V	150W
0 (zero)	Unused Slots			



PART # CONFIGURATION EXAMPLES:

RCB600-ABCC is a 600W unit with
 5V, 12V and 2 x 24V output modules

RCB1200-AABCCDD is a 1200W unit with
 2 x 5V, 1 x 12V, 3 x 24V, 2 x 48V output modules

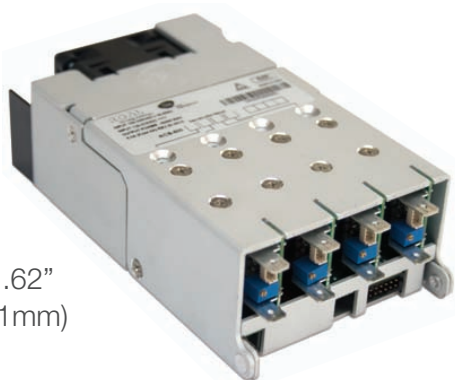
MORE Flexibility + LESS Compromise

Multi Output AC/DC Medical Power Supplies

MCB600 Field Configurable 600W Medical

600 W

3" x 5.27" x 1.62"
(76 x 134 x 41mm)
23oz (650g)

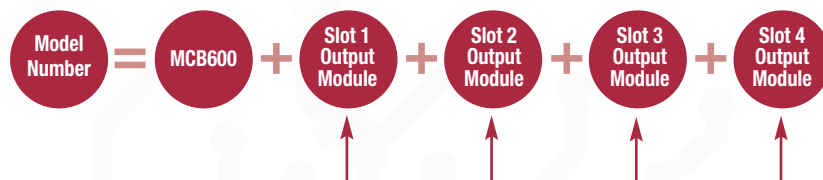


OUTPUT MODULE	NOMINAL VOLTAGE	RATED CURRENT	VOLTAGE ADJ.	OUTPUT POWER
A	5V	25A	1.5V to 7.5V	125W
B	12V	15.0A	4.5V to 15V	150W
C	24V	7.5A	9V to 30V	150W
D	48V	3.75A	18V to 58V	150W
0 (zero)	Unused Slots			

The MCB600 is a modular, user configurable power supply offering unrivalled performance and flexibility. The MB600 is a new type of medical power supply delivering an incredible 600 watts from a 3" x 5.27" x 1U chassis. The MCB600 is the smallest commercially available configurable medical power supply in the world. The power density of 25W/in³ is achieved in a modular and user configurable architecture allowing custom medical power solutions to be designed in minutes. Each medically isolated output can be configured with any of the 4 output modules offering any combination of 5V, 12V, 24V or 48V outputs. The series carries UL60601 and EN60950 safety approvals and complies with EN61000-3, EN61000-4 and EN55022-B EMC standards.

FEATURES

- Universal input voltage with active power factor correction
- High power density (25W/in³)
- Medical safety approved IEC601
- High efficiency up to 90%
- RoHS-6 compliant



PART # CONFIGURATION EXAMPLES:

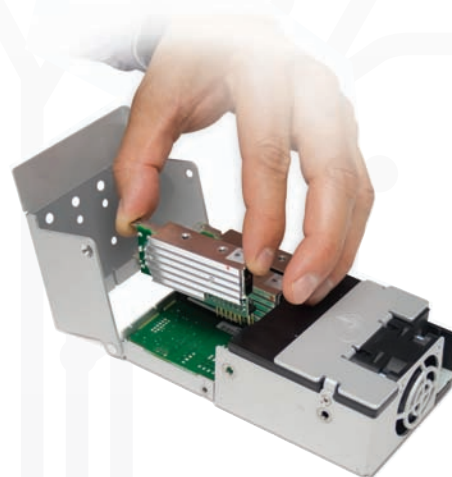
MCB600-ABCC is a 600W unit with 5V, 12V and 2 x 24V output modules

SPECIAL CONTROL FEATURES

- Remote voltage programming via I2C control
- Parallel operation
- Accurate wired current share
- Current output signal
- Global 5V 200mA bias supply

APPLICATIONS

- Medical devices
- Diagnostic equipment
- Dental electronics
- Laboratory equipment
- Portable diagnostics



MORE Flexibility + LESS Compromise

Tailored Solutions

ROAL Electronics specializes in the design and production of standard, modified standard and custom power supplies. ROAL's power supplies bridge the gap between cost and performance.

Reduced energy waste through higher efficiency, real time monitoring for greater reliability, and unrivalled power to size ratio are all fundamental qualities of our designs.

APPLICATIONS

- IT and networking
- Industrial
- Medical
- Telecommunications
- Home appliances

Conceptualization



ROAL
living energy

Evolution



Optimization



Validation



Realization



ROAL Electronics



Dear Valued Customer,

Every day a company through its activities, research and new projects – speaks and demonstrates our hope for a better future.

When we talk about a better future, we must speak about change and articulate a well-defined vision.

One of the most sensible reasons for this need to change is to improve the quality of life, for ourselves and for the rest of mankind, and to regain a new appreciation for the world we live in.

We can do this by using new technologies that man has been able to envision to create a life style that promotes mankind's harmony with the environment.

With Italian roots and a worldwide presence, ROAL embodies this philosophy in the products we create. Products such as our high energy efficiency AC/DC Power Supplies for advanced medical, communications and industrial infrastructure. Higher efficiency, lower energy consumption and better infrastructure for our environment.

We hope that you will find products to match your requirements in this catalogue. We are only a phone-call or e-mail away, and we are all more than happy to respond to any enquiry you may have.

SINCERELY YOURS,

Alessandro Leopardi
CEO & General Manager



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