



FOCUS ON MEDICAL POWER SUPPLIES

Designing and producing a wide range of medical power supplies since 1986

Why RGM?

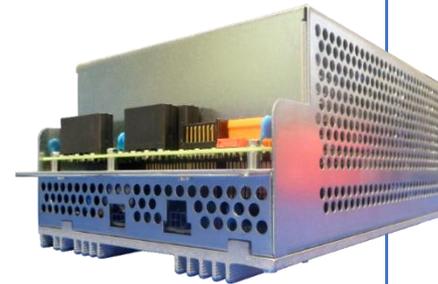
Custom PSUs exceeding the standards

- Small, light, reliable, efficient
- Multi-voltage outputs
- Out-of-standard performances
- Tailored mechanical layout
- Tailored mechanical layout
- Advanced cooling management



System integration capabilities

- Battery management (including Li-Based)
- Motion control (i.e. servomotors)
- High Level Assembly
- Power supplies architectures
- Advanced I/O communication and control





Our Commitment

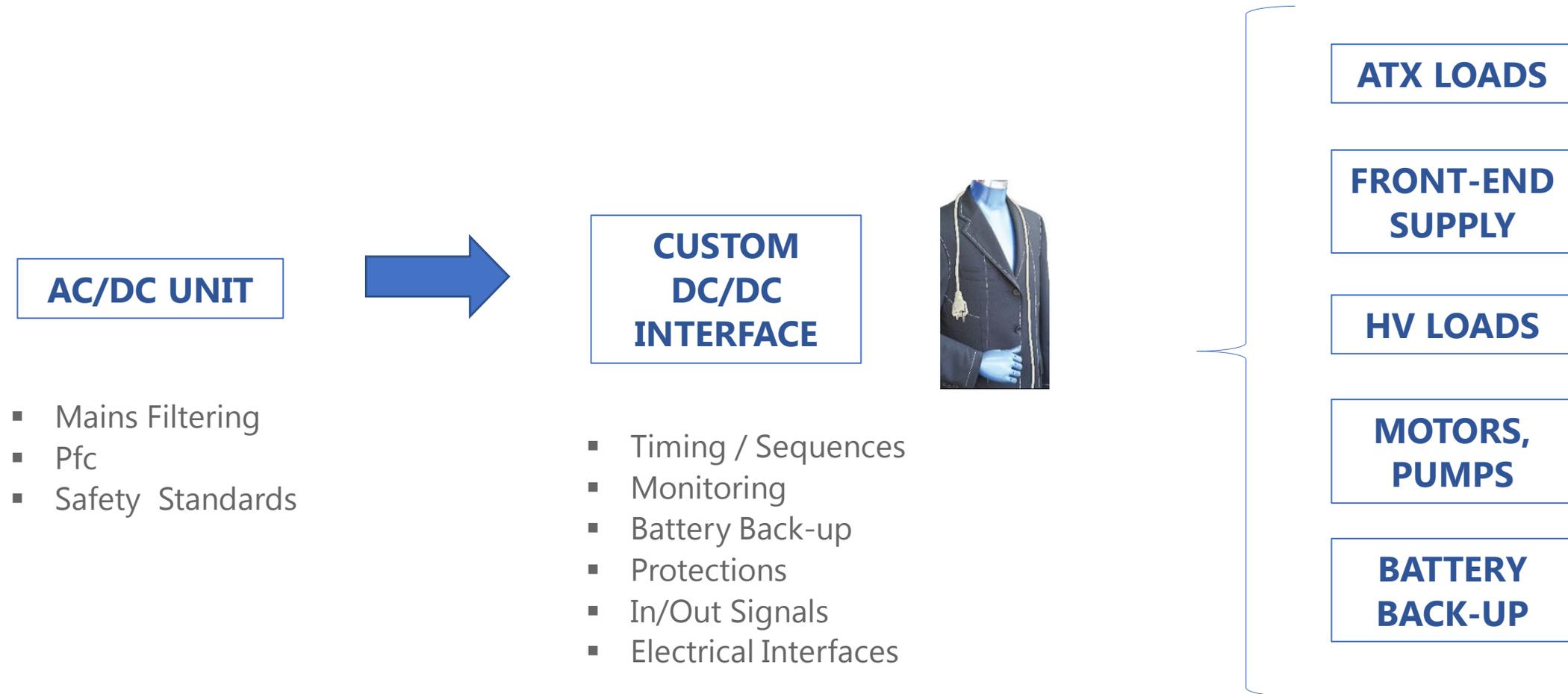
IEC 60601-1 (III ED.), CL1 – CL2
UL 60601-1 (III ED.), CL1 – CL2

We are aware of the great importance of the power supply in our customers' devices. The mission critical nature of medical devices demands high quality, reliable, safe and cost-effective products to face a strongly regulated market and an intense competitive environment.

This is why each product is

- **Designed in close partnership with the customer**
- **Manufactured in world-class manufacturing facilities**
- **100% functionally inspected**

Modular flexible platform concept





Device Applications

Surgical

A line-art icon depicting various surgical instruments, including a scalpel, forceps, and a cautery device, arranged on a tray.

Imaging

A line-art icon of a medical imaging machine, possibly a CT scanner or X-ray machine, with a monitor and a patient bed.

Lasers

A line-art icon of a laser device with a control panel and a handpiece.

Monitoring

A line-art icon of a patient monitoring station with multiple vital signs waveforms displayed on a screen.

Dialysis

A line-art icon of a dialysis machine with various tubes and a control panel.

Diagnostic

A line-art icon of a diagnostic machine, possibly an ultrasound or MRI, with a large monitor and a control console.

Home care

A line-art icon of a home care device, possibly a nebulizer or a small infusion pump, with a reservoir and a nozzle.

Others

A line-art icon of a miscellaneous medical device, possibly a small diagnostic or monitoring unit, with a screen and buttons.



360 W PSU Class II – type BF applications



- 88 ÷ 264 VAC Universal Input
- Dual output voltage
- 24 VDC @ 15A;
- 5 VDC @ 1A;
- Meets EN 60601-1 (III ed.) , class II, BF
- Suitable for B & BF rated equipment



"Suitable for therapy systems, patient heating and cooling equipment, incubators, ultrasound monitoring, cardiac monitoring, long-term diagnostic equipment and blood pressure monitoring"



150 W Modular PSU and/or Battery Charger For surgical lights

- 88 ÷ 264 VAC Universal Input
- + 24VAC Input
- +24 VDC Input
- 28VDC output
- Modular & parallelable unit
- CAN bus
- 3rd edition 60601



"A modular system for adapting true, authentic and reliable lighting to surgeons' needs"



250 W PSU Hematology analyzer

- 88 ÷ 264 VAC Universal Input
- No. of DC Output voltages : 6
- Special chassis to support device heat management
- cTUVus approved UL 61010-1:2012



Diagnostic



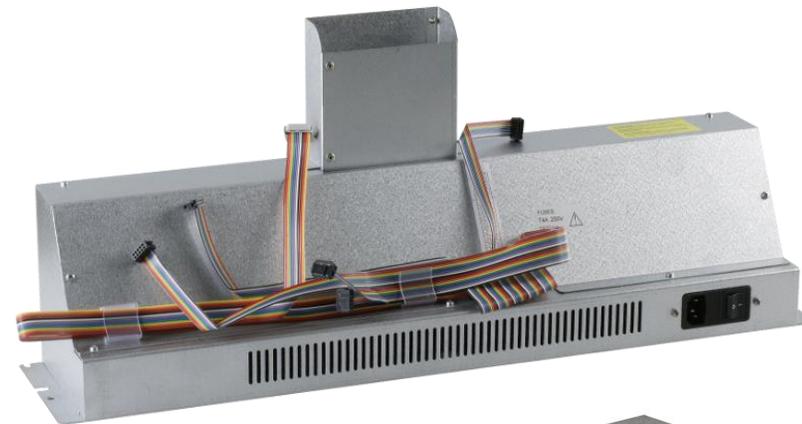
"The heart of leading hematology analyzer, providing rapid and consistent results"



300 W PSU + chassis Clinical diagnostic

- 88 ÷ 264 VAC Universal Input
- No. of DC Output voltages : 5
- Special chassis to support device heat management
- cCSAus approved UL 61010-1:2012

- All-in-one-shop
Provided with mechanical enclosures & specific wirings



Diagnostic



Powering the worldwide most appreciated clinical diagnostic. Backed by years of experience and continued success



360 W PSU Innovative fuel cell portable breathing machine

- 88 ÷ 264 VAC Universal Input
- Dual output voltages
- Adjustable 3,5-12VDC@25A for fuel cell H₂O > O₂
- 12VDC@5A for housekeeping management



Home care



Fully withstanding customer expectations for a compact and reliable power solution



430 W PSU Two module Ultrasound Scanner

- 88 ÷ 264 VAC Universal Input
- 7 low VDC output
- 2 high VDC adjustable output
- cCSAus approved

AC/DC Main Power
Supply Module



DC/DC Front End Module



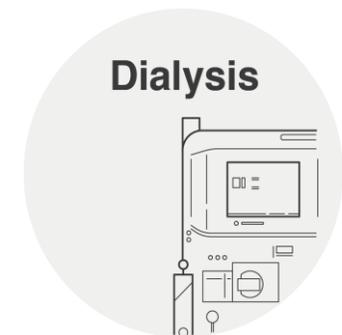
Two units to generate the low voltages but with high current ratings close to the consumer and to provide filters and linear regulations for low-noise supply voltages for the analog section of the front end



480 W Power Unit Clinical Hemodialysis System

- 88 ÷ 264 VAC Universal Input
- No. of DC Output voltages : 7
- 2 with additional insulation

- Built-in self powered Alarm Buzzer
- extensive I/O interface
- Battery back-up full management
- EN 60601-1 (III ed.)



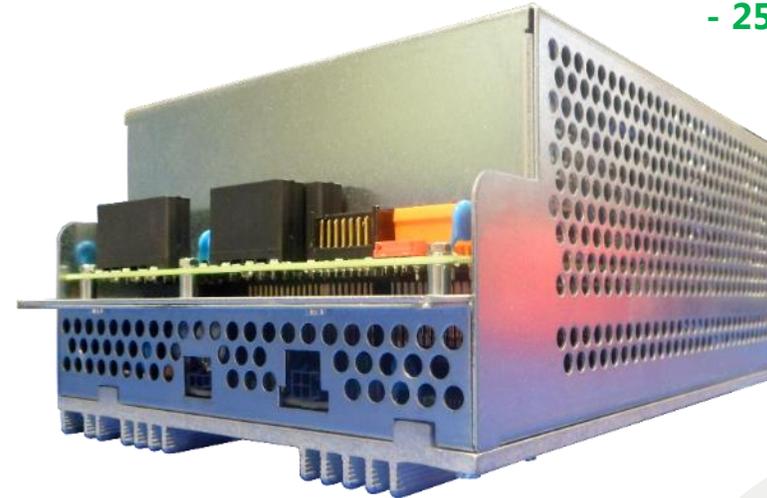


530 W Power Unit Chronical haemodialysis system

- 88 ÷ 264 VAC Universal Input
- No. of DC Output voltages : 7
- 2 with additional insulation

- 98db self powered alarm Buzzer 1 min. function
- extensive I/O interface
- Battery back-up full management
- Full backward compatibility with previous series
- Increased performances vs previous series
- EN 60601-1 (III ed.)2 MOPP

-30% size
-20% weight
+ 5,5% efficiency
- 25% cost



Dialysis



The evolution of a winner product - Powering the next generation of haemodialysis systems



600 W PSU Immunoanalyzer

- 88 ÷ 264 VAC Universal Input
- Dual DC Output voltages
- Temperature controlled fan speed
- cCSAus approved UL 61010-1:2012



Diagnostic



Powering the last generation providing more efficiency , reliability in reduced dimensions



650 W Power Unit Renal intensive care machine

- 88 ÷ 264 VAC Universal Input
- 12/24 VDC Battery Input
- No. of DC Output voltages : 6
- Battery back-up full management
- Built-in self-powered Alarm Buzzer
- cTUVus EN 60601-1 (III ed.)
- 2 MOPP



Dialysis



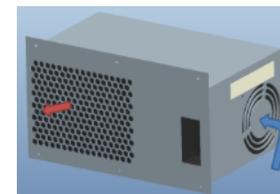
Powering the best in class in blood purification therapies in the hospital setting



665 W PSU Laboratory analyzer

- 88 ÷ 264 VAC Universal Input
- No. of DC Output voltages : 9
- 10 mV ripple on analog outputs

- EN 61010-1 III ed.
- Double independent current protection

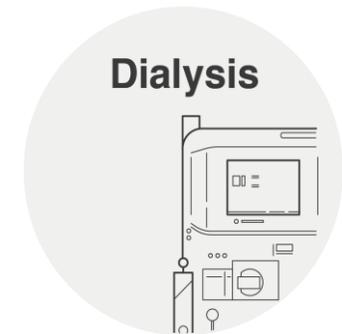


Diagnostic



750 W Power Unit Clinical Hemodialysis System

- 88 ÷ 264 VAC Universal Input
- No. of DC Output voltages : 3
- 24 VDC/7Ah Pb battery back-up
- Built-in customer interface board
- Battery back-up full management
- Auto Self-test capability





800 W | 7500 W peak Capacitor Charger and Diode Laser Drive Medical / Aesthetic devices

- 88 ÷ 264 VAC Universal Input
- 800 J/s charger
- 50V/150 A laser diode stack driver
- 50 msec/50 V/150 A; 70 msec/50 V/ 130 A
- Pulse repetition rate: up to 5 Hz
- IEC 60601-1 (III ed.)



Lasers



Providing unequalled performance in a variety of device configurations



580 W + 300 VA Power Unit Ultrasound scanner

- 88 ÷ 264 VAC Universal Input
- No. of DC Output voltages : 15
- 4 medical grade insulated AC outlets
- I2C bus interface
- Oversized fans to perform device heat management
- EN 60601-1 (II ed.) cULus approved



Imaging



All-in-one-shop - Integrating all of the scanner power needs in one box



850 W + 450 VA Power System Ultrasound Scanner

- Input 110 / 220 VAC
- No. of DC Output voltages : 7
- 2 high VDC adjustable outputs
- 4 medical grade insulated AC outlets
- I2C bus interface





1500 VA AC/AC module Ultrasound Scanner

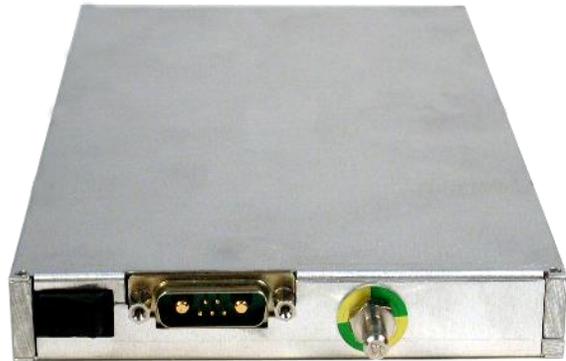
- 88 ÷ 264 VAC Universal Input
- 1.500 VA RGM medical insulation transformer
- OEM manufactured



Powering one of the most widely known ultrasound machines in the OB/GYN field



And many more...





HIGHLY
COMPETENT DESIGN

PROFESSIONAL MANUFACTURING

LIFE TIME
UNBEATED SERVICE

1986 - 2016
30 YEARS

CUSTOM POWER SUPPLIES & CONVERSION SYSTEMS

Thank you for your attention

RGM S.p.A.

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