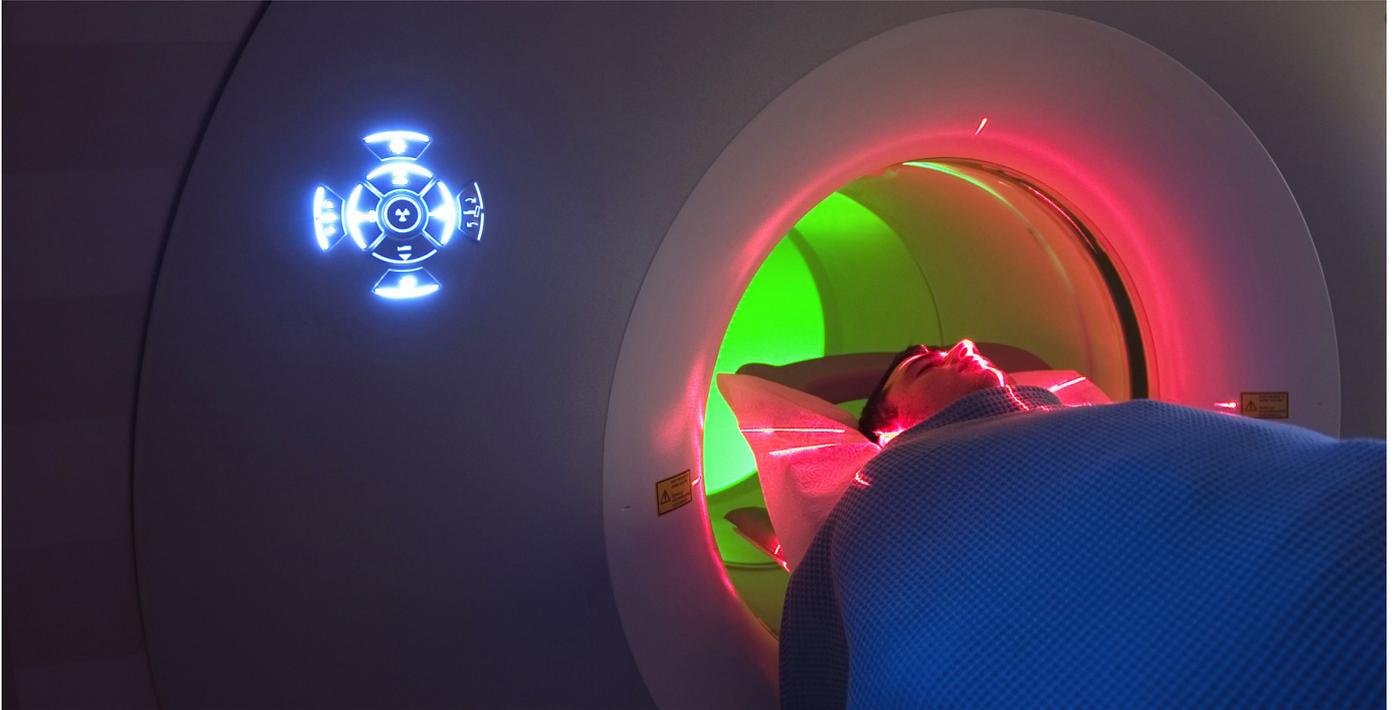


P R
B X

POWERBOX
SMM900A2C6-C



Ensuring safe battery backup for medical devices

Medical devices used within the professional healthcare environment may often have the need of a battery backup to ensure a safe operation of the Medical Device its powering.

Powerbox flexible design offering can utilize standard off the shelf medically approved AC/DC converters for a certified MAINS isolation providing 2MOOPP and easily tailor a DC/DC solution to fit the system requirements of the Medical Device. Based upon the already certified mains converter the approval for the complete system is made easy for class II Medical Devices.



POWERBOX SMM900A2C6-C

The SMM900A2C6-C is a dual output unit providing a battery voltage output as well as a second regulated output. SMM900A2C6-C can be equipped with either one battery pack (48V/7Ah) or two depending of the backup time required. Available time during battery operation is >20 minutes ensuring that the patient treatment may continue or safely be discontinued. Recharging time approx.4 hours. Status signals are available both as visual indication and monitoring signals via a d-sub connector. The battery fuse unit is both equipped with a circuit breaker of 20A as well as a relay that disconnects the load at low battery voltage.

During maintenance the engineer can disconnect the mains voltage and safely monitor the battery discharge cycle to estimate the remaining lifetime of the batteries.

Powerbox extensive knowledge within battery charging allows for either advanced control and monitoring functionalities or, equally safe, more simplified float charge types. By the use of a microcontroller the charging characteristics may as well be tailored to the specified requirements of the battery manufacturer.

Features

- Medical DC UPS system
- Containing charger, battery, distribution
- Application is positioning system for treatment bed
- Regulatory compliance by ETL listing
- Monitoring
 - Mains voltage level is OK signal
 - Charger output voltage is OK signal
 - Converter voltage is OK signal (both 24 V, redundant, converters)
 - Battery voltage and battery fuse is OK signal
 - Temperatures is OK signals, three internal sensors combined

Input

- Nominal input 100-240 VAC
- Input range 90-264VAC
- Frequency 45-65 Hz
- Input source current max 9A rms

Output

- Output 1: 48 VDC: 44-56 VDC max 700W
- Output 2: 24 VDC (redundant): 22.8-25.2 VDC max 300W

Environmental

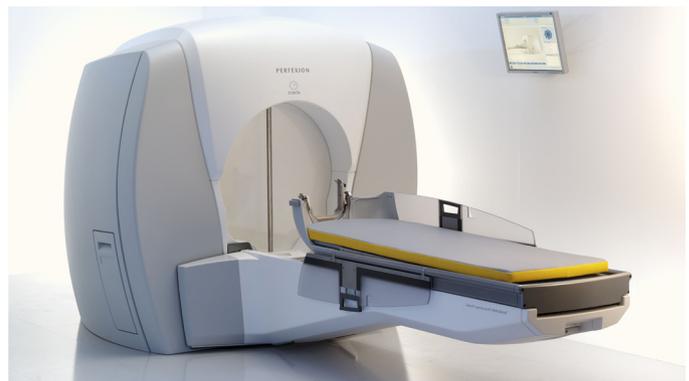
- Operating temperature +10°C to +40°C
- Storage temperature 0°C to +70°C

General

- Over current/voltage/temperature protection
- Dimension 483x266x400 mm (width 19", height 6U)
- Weight 25 kg (1 battery unit), 36 kg (2 battery units)
- MTBF >10 years (batteries excluded)
- Isolation 4,000 VAC primary - secondary
- Connections via screw terminals and/or lockable connector
- Battery deep discharge protection
- Temperature indication via LED and d-sub connector

About this Product Flyer

The intention of this flyer is to describe the capabilities from the Powerbox group. A reference case using a similar product as described is the Leksell Gamma Knife® Perfexion™ from Elekta Instrument AB.



About Powerbox

Founded in 1974, with headquarters in Sweden and operations in 15 countries across four continents, Powerbox serves customers all around the globe. The company focuses on four major markets - industrial, medical, transportation/railway and defense - for which it designs and markets premium quality power conversion systems for demanding applications. Powerbox's mission is to use its expertise to increase customers' competitiveness by meeting all of their power needs. Every aspect of the company's business is focused on that goal, from the design of advanced components that go into products, through to high levels of customer service. Powerbox is recognized for technical innovations that reduce energy consumption and its ability to manage full product lifecycles while minimizing environmental impact. Powerbox is a Cosel Group Company.

For more information

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