



## COSEL's PJMA series power supplies are robust and reliable for demanding medical applications

Press Release  
2021-03-08

- Medical isolation grade 2MOPP
- Input / Output 4kV Isolation
- Low power consumption at no load
- Universal input range 85 to 264VAC
- 5 year warranty

COSEL Co, Ltd (6905: Tokyo) today announced the expansion of its medical power offering with the addition of the PJMA series. The 600W PJMA600F and the 1000W rated PJMA1000F have a universal input range of 85 to 264VAC and comply with international safety standards. Designed for demanding medical applications, the PJMA series input/output isolation complies with 2MOPP requirements. Based on a robust platform, the units' design has been optimized to offer a very good price/performance ratio for medical applications requiring a high quality power solution. The PJMA series is available in four output voltages of 12, 24, 36 and 48VDC.

Medical applications are requiring robust and highly reliable power supplies that are able to operate around the world and comply with safety regulations. Based on many years of expertise, COSEL power designers developed an optimized platform to offer an excellent price/performance ratio without compromising on quality and reliability. The PJMA series can be operated within the so called 'universal Input' range of 85 to 264VAC, and has a typical efficiency of 88% at high line.

Four single output voltages are available as standard in each unit. That's 12V/50A, 24V/25A, 36V/16.7A, and 48V/12.5A for the PJMA600F, and 12V/84A, 24V/42A, 36V/28A, and 48V/21A for the PJMA1000F. The output voltage can be adjusted by using the built-in potentiometer.

The PJMA series includes inrush current limiting circuitry, overcurrent and overvoltage protection, as well a thermal protection. Exhibiting versatility and robustness, the power supplies can be operated in an environmental temperature range of -20 to +70 degrees centigrade. Depending on the final equipment assembly style and cooling conditions, a derating may apply.



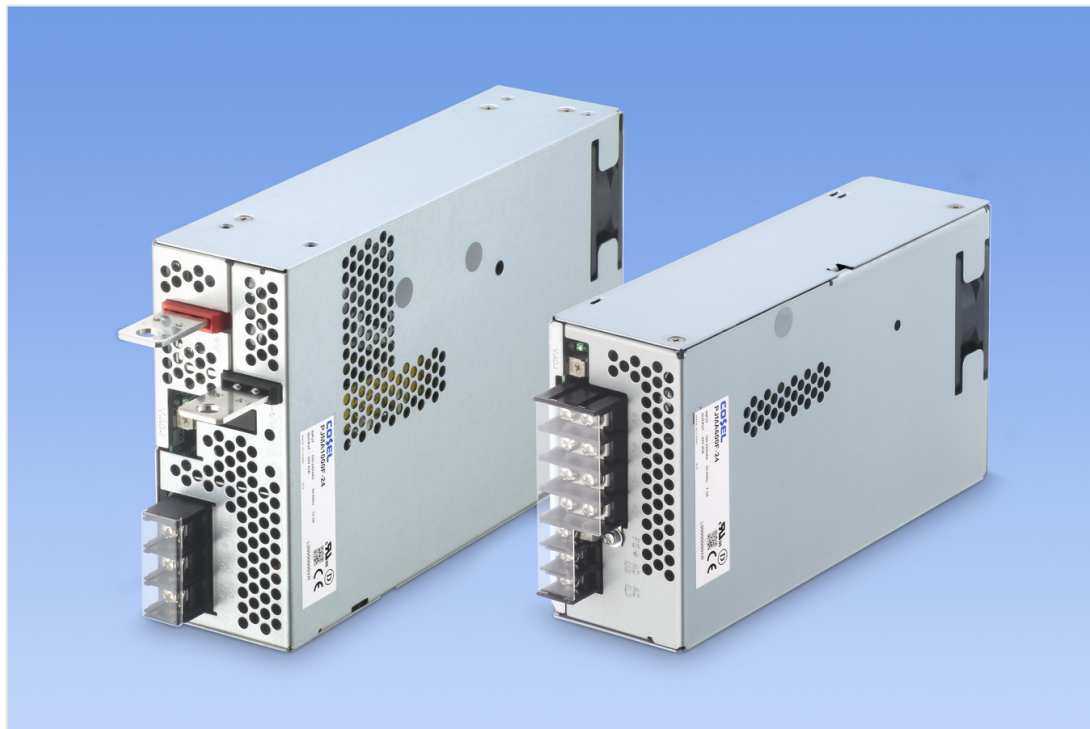
With its medical focus, the PJMA series input to output isolation complies with 2MOPP, its input to ground with 1MOPP, and output to ground with 1MOPP. The units are approved in accordance with ANSI/AAMI ES60601-1 and EN60601-1 3rd Edition.

In conducted emission tests, the PJMA series complies with the FCC-B, CISPR11-B, CISPR32-B, EN55011-B, EN55032-B, and VCCI-B. For applications requiring even lower emission levels an additional filter COSEL type NAC can be supplied (NAC-16-472 for the PJMA600F and NAC-20-472 for the PJMA1000F).

To accommodate application specific requirements, a number of options are available including conformal coating (C), low leakage current (G), external potentiometer connector (V), remote control (R), remote sensing / low output voltage alarm and parallel operation (W), and low speed fan (F4).

For strength and longevity, the PJMA series is built in an enclosed, galvanized steel box with fans mounted on the rear side (one for the 600W and two for the 1000W). The PJMA600F measures 120 x 61 x 215mm [4.72 x 2.40 x 8.46 inches] (W x H x D), and has a weight of 2.0 kg max. The PJMA1000F measures 150 x 61 x 240 [5.91 x 2.40 x 9.45 inches] (W x H x D) and has a weight of 2.8kg max.

The PJMA series has a five-year warranty and conforms to the European RoHS, REACH and Low Voltage Directives.



Based on a robust platform, the PJMA's design has been optimized to offer a very good price/performance ratio for medical applications requiring a high quality power solution

**Related URL:**

PJMA600F Series

<https://www.prbx.com/product/pjma600f-series/>

PJMA1000F Series

<https://www.prbx.com/product/pjma1000f-series/>

**Link to Cosel Europe product page:**

<https://www.coseurope.eu/Products/AC-DC/PJMA>



**About COSEL:**

Established in Japan 1969, COSEL is one of the world's leading designers and manufacturers of high performance AC-DC Power Supplies, DC-DC Converters and EMI Filters. With quality, reliability & flexibility as our main focus, we pride ourselves on developing some of the highest quality and most reliable products seen anywhere in the world today. The Cosel Group is a \$228 million global company employing some 790 staff with sales offices throughout Japan, Asia, Europe and North America. Our product range is aimed mostly at demanding applications within the Industrial, Factory Automation, Medical, Telecoms, Lighting, Audio/Broadcast & Renewable Energy sectors. A flexible approach with full in-house design means we deliver products using the very latest technology meeting the growing demands of our customers.

**Note to the Editors:**

The Cosel Group includes the European power specialist Powerbox International AB, which has been acquired June 25, 2018 by COSEL.

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**Reference :**

COSEL PR-21:001\_PJMA1000-600\_EN