

Medical Power Supply MEP Series

MEP-500A with New Enclosed and Top Fan Models



High Power
Density



-40°C to 85°C
Temperature



4kV EFT
Capacity



Medical Power Supplies

Delta Expands MEP-500A Series Medical Power Supply with New Enclosed and Top Fan Models

Delta has expanded its high-performance MEP-500A Series medical power supply with two new configurations: the CRA (enclosed model) and DRA (enclosed model with top fan), delivering versatile, reliable power solutions for a wide range of medical system applications. This Series provides three distinct form factors (open frame, enclosed, and enclosed with top fan), offering enhanced thermal management and integration versatility within a compact design. Specifically, the MEP-500AxxJ CRA (enclosed) features a protective enclosure that reduces the risk of accidental contact with internal components while streamlining system assembly. Additionally, the MEP-500AxxJ DRA (enclosed with top fan) delivers a full 500 W output via an integrated low-noise fan, eliminating the need for external cooling while ensuring quiet operation for medical environments.

Beyond its versatile configurations, the MEP-500A Series offers 12V, 18V, 24V, and 48V output options, alongside a 5 V / 2 A standby output for flexible auxiliary power. To ensure reliability in demanding environments, it sustains consistent performance across a broad operating temperature range of -40°C to +85°C. The Series also features 4 kV Electrical Fast

Transient (EFT) immunity. This guarantees stable power delivery essential for reliable signal processing and consistent image quality even in electrically noisy environments. For enhanced system control and integration, the unit also incorporates built-in remote on/off and remote sense.

Moreover, this high performance is matched by up to 95% efficiency and an outstanding 25.64 W/inch³ power density within a compact 3" x 5" footprint. Featuring a low-profile design of just 1.5" (enclosed) and 2.3" (enclosed with top fan) in height, these latest configurations simplify system integration while maximizing space within space-constrained medical applications, including ultrasound and IVD systems, ventilators, operating tables, and surgical lights.

Furthermore, the Series are engineered to meet stringent medical safety requirements featuring 2 x MOPP isolation and Type BF classification for uncompromised operation. It is fully certified to international IEC/EN/UL standards across the medical, IT, and household sectors, securing global compliance and operational integrity.

Product Information

Enclosed > MEP Series

500 W Enclosed



MEP-500A12J CRA	12 V / 41.7 A https://psu.deltaww.com/en/products/enclosed/MEP-500A12J%20CRA
MEP-500A18J CRA	18 V / 27.8 A https://psu.deltaww.com/en/products/enclosed/MEP-500A18J%20CRA
MEP-500A24J CRA	24 V / 20.9 A https://psu.deltaww.com/en/products/enclosed/MEP-500A24J%20CRA
MEP-500A48J CRA	48 V / 10.5 A https://psu.deltaww.com/en/products/enclosed/MEP-500A48J%20CRA

500 W Enclosed with Top Fan



MEP-500A12J DRA	12 V / 41.7 A https://psu.deltaww.com/en/products/enclosed/MEP-500A12J%20DRA
MEP-500A18J DRA	18 V / 27.8 A https://psu.deltaww.com/en/products/enclosed/MEP-500A18J%20DRA
MEP-500A24J DRA	24 V / 20.9 A https://psu.deltaww.com/en/products/enclosed/MEP-500A24J%20DRA
MEP-500A48J DRA	48 V / 10.5 A https://psu.deltaww.com/en/products/enclosed/MEP-500A48J%20DRA

- Please contact your [local sales representative](#) for product availability. Alternatively, you may [leave us a message](#) and our sales representative shall get back to you.

Features

- Low-profile design: 3.5" x 5.5" x 1.5" (enclosed), 3.5" x 5.5" x 2.3" (with top fan)
- Robust 25.64 W/inch³ power density
- High output of 500 W with fan cooling
- 5 V / 2 A standby output
- Built-in remote on/off and remote sense voltage compensation
- Precision analog voltage trimming
- Operating temperature up to 85°C
- Compliant with global medical, IT, and household safety regulations

Applications



Ultrasound Machine



Anesthesia Ventilator



Operating Table



Dialysis Machine