Product Specification Sheet
Replacement Power Supply Cord
ME20A-1203B01

ME20A-1203B01 Replacement Power Supply Cord

The Replacement Power Supply Cord (SKU: ME20A-1203B01) is a commercial, medical-grade external AC/DC power adapter engineered to maintain the continuous operation of wireless master consoles. Sourced through BEC Integrated Solutions, this premium power component provides a reliable, regulated energy flow designed specifically for high-exposure environments where unexpected system shutdowns are not an option. Acting as a critical operational anchor, the ME20A-1203B01 preserves system integrity, ensuring that centralized nurse call receivers remain powered to accurately log and route incoming patient distress signals.

Architects and Engineers Specifications

1.0 General System Description

The central monitoring terminal shall be energized by a dedicated, medical-grade external AC/DC wall adapter, model ME20A-1203B01. The secondary power source shall operate as a regulated unit to deliver single-source direct current exclusively to wireless console receivers.

2.0 Electrical and Safety Criteria

- The transformer assembly must feature a universal input range capable of accommodating 90 to 264 VAC without manual mechanical switching.
- The power supply architecture must feature comprehensive isolation levels satisfying 2 MOPP (Means of Patient Protection) safety thresholds.
- The structural enclosure must satisfy IP22 ingress standards to guard internal circuits against localized fluid or particulate contamination.

3.0 Execution and Continuity

The replacement power supply cord must plug firmly into the designated console receiver housing via a molded barrel plug assembly. The electrical design must incorporate a Level VI efficiency rating to restrict no-load power draw beneath 100mW max.

Product Specifications

- **SKU/Model:** ME20A-1203B01
- **Input Voltage Range:** Universal 90 ~ 264 VAC
- **Output Voltage:** 12V DC
- **Max Output Current:** 1.5 A
- **Total Power Capacity**: 18W (Part of the 20W Series)
- **Output Connection Type:** Barrel Plug (2.5mm I.D. x 5.5mm O.D. x 9.5mm)
- **Cord Length:** 59 inches (1.50 meters)
- **Enclosure Ingress Rating:** IP22 Liquid and Dust Resistance
- **MTBF Reliability Rating:** >1,000,000 Hours

Equipment Options

The ME20A-1203B01 serves as a unified power provider across various medical facility layouts and system configurations:

- **System Integration:** Built explicitly as an essential power foundation for the MV200Plus, MV500, and PC-Based wireless nurse call system architectures.
- **Receiver Compatibility:** Fits seamlessly into the rear power receptacles of Micro-Vision 200Z and Micro-Vision 400Z wireless console receivers.
- **Interchangeable Prongs:** Configured with fixed-blade North American prongs, with compatibility extending to global multi-blade terminal adapter kits for regional flexibility.

Toll-Free: 888.556.3998
Phone: 716.689.0871
Fax: 716.312.6021
Address: 5225 Sheridan Drive, Georgetown Square
Williamsville New York 14221.
E-mail: support@becsolutionsllc.com

Standard & Advanced Features

- **Continuous Duty Performance:** Engineered for healthcare environments where electrical mains may be noisy or prone to fluctuations, ensuring a steady 12V output.
- **Advanced Noise Cancellation:** Built-in EMI/EMC suppression filters prevent electrical interference from disrupting surrounding radio-frequency signals or critical life-safety monitors.
- **Ruggedized Structural Build:** Features an IP22-rated enclosure, providing a sealed layer of defense against minor liquid drips, spills, and airborne dust particles common in active nurses' stations.
- **Optimized Thermal Profiles:** Features an elite electrolytic capacitor (E-cap) lifecycle of greater than 10 years and an MTBF rating exceeding 1,000,000 hours, lowering overall hardware overhead.

Compliance and Certification

The ME20A-1203B01 adapter holds specialized industrial, electrical, and clinical listings required for installation within healthcare infrastructure:

- **UL Status:** Certified to UL60601-1 (3rd Edition) for Medical Device Safety, alongside strict compliance with UL/EN/IEC60601-1-2 (4th Edition) for medical electromagnetic compatibility (EMC).
- **FCC Status:** Formally certified under FCC Part 15.109 Class B for Conducted and Radiated Emissions, ensuring the unit generates no harmful radio interference near local receivers.
- **RoHS Status:** Thoroughly compliant with environmental RoHS material directives, constructed completely free of hazardous substances such as lead, cadmium, and mercury.
- **Efficiency & Industry Standards:** Meets Department of Energy (DoE) Efficiency Level VI criteria and bears official CE approval markings.

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