

Murata Power Solutions Product Overview

AC-DC and DC-DC Power Supplies



Front-End AC-DC Power Solutions

- High Power efficiency 96% at 50% load beyond 80Plus requirements
- N+1 redundancy capable; hot plugging (up to 8 in parallel with active current sharing)
- From 450 to 3600 Watts output power
- Power Management PMBus™/ I²C interface protocol for control, programming, and monitoring
- Current sharing on 12V main output; Integral ORing MOSFET isolation
- Wide AC input voltage range with active PFC



Rack Power & Data Center Solutions

- 80 PLUS® Titanium (96%) efficiency PSU
- Up to 6 PSUs per shelf
- High reliability, redundant design
- OCP V1 and V2 open rack compliant
- Hot swappable



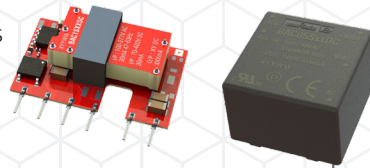
Open Frame Power Solutions

- From 250 to 1000 Watts output power with forced air cooling
- Up to 95% efficiency at 50% load
- Designed to comply with IEC60601-1-2, 4th Edition EMC Standard Requirements
- Industrial and medical applications



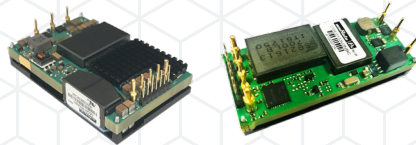
Board Mount AC-DC Power Solutions

- Wide industrial temperature ranges
- Ruggedized to operate efficiently in demanding environments
- Reinforced insulation provides unsurpassed safety
- UL62368-1 and ES60601-1 safety approvals
- EN55032 class B Radiated and Conducted emissions



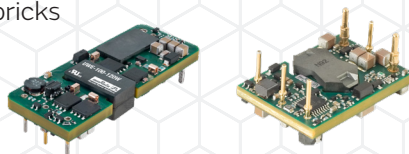
Isolated Bus Converters

- High reliability
- Positive or negative on/off logic
- -40°C to +85°C operation
- Optional PMBus digital control



Isolated Board Mount DC-DC Power Solutions

- Single output wide input range bricks
- 2:1 and 4:1 input range options
- -40°C to +85°C operation
- Stable 'no-load' operation



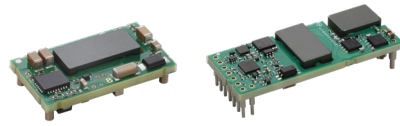
Rugged Board Mount Power

- Input voltage ranges from 9-160V in a single module
- Stable no-load operation
- Wide operating temperature ranges
- High efficiency, up to 91.5%



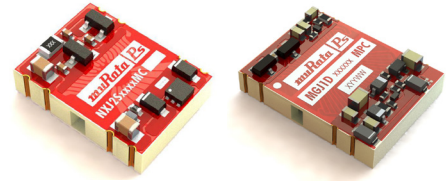
PoE Power Modules

- Full output power available @ 65°C, natural convection cooling
- Fully I/O protected, thermal shutdown
- Low Vout ripple/noise



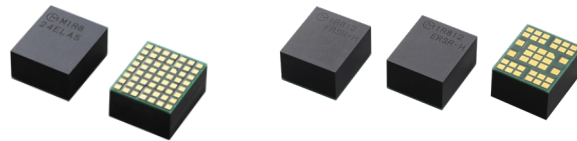
Low Power Isolated DC-DC Power Solutions

- Gate drive voltages for IGBT (insulated-gate bipolar transistor) & SiC
- Designed for reliability and safety
- Ultra-low isolation capacitance
- Up to 10kV isolation



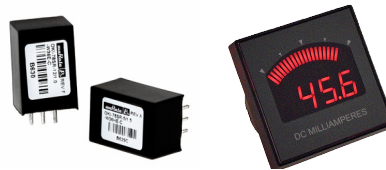
Non-Isolated Board Mount DC-DC Switching Regulators

- State-of-the-art performance for thermal management
- Suitable for use in harsh environments
- Vertical SIP (single in-line package) or horizontal mount
- Two stage architecture with charge pump technology



Digital Panel Meters

- Industry's most versatile panel meters
- Self-powered directly from the AC supply
- Programmable alarm output
- Four-digit LED display with overvoltage indication



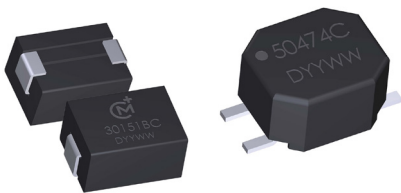
Ionizers / Ozonizers

- High output voltage to create ion or ozone molecules
- User adjustable concentration levels
- Compact designs with AC and DC input versions
- Used in application such as, sterilization, odor removal, air purifiers, prevention of mold and viruses, and elimination of static energy



Magnetics

- Critical components for meeting EMC requirements
- Provide protection to other noise sensitive devices
- Energy storage in power converters



Global locations

For details please visit www.murata.com



⚠ Note

1 Export Control

For customers outside Japan:

No Murata products should be used or sold, through any channels, for use in the design, development, production, utilization, maintenance or operation of, or otherwise contribution to (1) any weapons (Weapons of Mass Destruction [nuclear, chemical or biological weapons or missiles] or conventional weapons) or (2) goods or systems specially designed or intended for military end-use or utilization by military end-users.

For customers in Japan:

For products which are controlled items subject to the "Foreign Exchange and Foreign Trade Law" of Japan, the export license specified by the law is required for export.

2 Please contact our sales representatives or product engineers before using the products in this brochure for the applications listed below, which require especially high reliability for the prevention of defects which might directly damage a third party's life, body or property, or when one of our products is intended for use in applications other than those specified in this catalog.

- ① Aircraft equipment
- ② Undersea equipment
- ③ Medical equipment
- ④ Traffic signal equipment
- ⑤ Data-processing equipment
- ⑥ Aerospace equipment
- ⑦ Power plant equipment
- ⑧ Transportation equipment (vehicles, trains, ships, etc.)
- ⑨ Disaster prevention / crime prevention equipment
- ⑩ Application of similar complexity and/or reliability requirements to the applications listed above

3 Product specifications in this catalog are as of February 2022. They are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering. If there are any questions, please contact our sales representatives or product engineers.

4 Please read rating and & CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.

5 This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

6 Please note that unless otherwise specified, we shall assume no responsibility whatsoever for any conflict or dispute that may occur in connection with the effect of our and/or a third party's intellectual property rights and other related rights in consideration of your use of our products and/or information described or contained in our catalogs. In this connection, no representation shall be made to the effect that any third parties are authorized to use the rights mentioned above under licenses without our consent.

7 No ozone depleting substances (ODS) under the Montreal Protocol are used in our manufacturing process.

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