



C U T S H E E T



MADE IN USA

Configurations

The Bentek Solar MDSS provides circuit protection and reduced costs. Multiple circuit breakers are combined into one MDSS. Let us assist you in determining the appropriate solar products for your application.

Contact Us Today – 1-866-505-0303



Fully assembled in our ETL-certified facility in San Jose, CA.

Commercial (Coml)

Multiple Disconnect Safety System 600VDC

Low-current 100A Disconnect, Medium Current 250A Disconnect, High-Current 400A Disconnect

Bentek Solar Multiple Disconnect Safety Systems (MDSS) are designed for commercial PV solar systems and are intended for installation next to the inverter. The MDSS provides multiple UL 600VDC load-break disconnects combined into one easy-to-install, safe compact enclosure.

The MDSS provides safety and protection for your photovoltaic investment by providing complete isolation of inverter fuses. It also reduces space requirements and material and labor costs and provides full compliance to NEC safety standards.

Standard Product Features

- ▶ Multiple 100A, 250A, or 400A load-break disconnects in a single safety enclosure.
- ▶ Free-standing NEMA-3R enclosures with powder coating standard.
- ▶ Removable sides and bottom in NEMA 3R enclosures provide for easy wire routing and installation.
- ▶ Lockable exterior door.
- ▶ 600VDC.
- ▶ Rated for continuous duty.
- ▶ Up to 10 integrated disconnects per MDSS.
- ▶ Safety covers on live components.
- ▶ Handles mounted externally.
- ▶ Lock out/tag out functionality for each handle.
- ▶ Standard eyelets for lifting.
- ▶ ETL Listed to UL1741.
- ▶ ETL Listed to CSA Std. 22.2 No. 107.
- ▶ **ISO 9001:2008 Quality Certified.**

Optional Product Features

- ▶ Larger enclosure for greater wire-bend radius.
- ▶ Grounded (negative) terminal blocks.
- ▶ Handles mounted on internal dead front.
- ▶ Single handle for two disconnect switches reduces number of handles required (complies with 6-handle rule).
- ▶ Zone current monitoring with Modbus protocol through RS485 or Ethernet.
- ▶ Prewired for easy installation.
- ▶ 90°C terminal and custom lug configurations available.

Disconnect Safety Systems

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MDSS safety and protection for your photovoltaic investment.

Bentek Solar MDSS products are designed to meet the needs of almost every job.

With over 25 years of experience building products, Bentek designs quality and safety into every solar product.

With the flexibility of adding multiple load-break disconnect capabilities into one safety system, Bentek Solar has the right product for you. Ample internal space provides ease of installation, and wire-bending space satisfies all NEC requirements.

Contact us now for your upcoming projects.

Large solar projects need MDSS.

Bentek Solar MDSS Models	Max Voltage	Input Circuits	Disconnect Handles	Disconnect Switch Rating (A)	Standard Input Conductor Size (AWG)	Standard Output Conductor Size (AWG)	Enclosure Size in inches (HxWxD)
Low current							
BTK6-MDSS-10100	600	Up to 10	Up to 10	100	300MCM	300MCM	79x32x24
BTK6-MDSS-DF-10100	600	Up to 10	Up to 10	100	300MCM	300MCM	79x32x24
BTK6-MDSS-10100-RH	600	Up to 10	Up to 5	100	300MCM	300MCM	79x32x24
Medium current							
BTK6-MDSS-10250	600	Up to 10	Up to 10	250	300MCM	300MCM	79x32x24
BTK6-MDSS-DF-10250	600	Up to 10	Up to 10	250	300MCM	300MCM	79x32x24
BTK6-MDSS-10250-RH	600	Up to 10	Up to 5	250	300MCM	300MCM	79x32x24
High current							
BTK6-MDSS-08400	600	Up to 8	Up to 8	400	600MCM	600MCM	79x32x24
BTK6-MDSS-DF-08400	600	Up to 8	Up to 8	400	600MCM	600MCM	79x32x24
BTK6-MDSS-08400-RH	600	Up to 8	Up to 4	400	600MCM	600MCM	79x32x24

RH = Reduced Handle; DF = Dead Front Specifications subject to change.



About Bentek Solar

Founded in 1985, Bentek is a leader in manufacturing and engineering solutions for complex electro-mechanical and power distribution systems for the semiconductor and solar industries. Bentek has applied these extensive capabilities and knowledge into a comprehensive family of both standard and configurable solar combiner products. These solar combiners provide quality, ease of installation, and safety to the solar industry. For more information, contact Bentek Solar on the web at www.BentekSolar.com, by email to solarsales@bentek.com, or by telephone at 1-866-505-0303.

DISCONNECT SAFETY SYSTEMS