

ABB Solar Isolators

True DC switching isolators



Today ABB have a complete range of PV Solar enclosed and open switches up to 750v

The ABB PV Solar switches up to 32A have been tested to IEC60947-1 and three requirements up to 750v 16A DC23A, 25A DC22A and 32A DC21A.

The ABB range of PV Solar switches have been used all over the world in both the domestic installations and the large PV installations where the larger DC rated isolators and string boxes are used.

To achieve higher voltages ABB will launch the OTDC for 16 to 32 Amperes specifically designed for DC use. Despite its compact size OTDC's insulation voltage ratings are very generous.

Thanks to its modular design the rated operational voltage can be scaled according to your needs, all the way up to 1250 VDC. This ensures safe and reliable PV systems at a wide voltage range.

The OTDC will be available in 3 current ratings 16, 25 & 32 amps and will be rated, 660VDC, 1000VDC & 1250VDC.

ABB offers a new range of switch disconnectors specifically designed for direct current applications. Among these, one of the most popular and technically demanding is solar photovoltaic (PV) systems.

In PV systems, switch-disconnectors are relied on to operate continuously in hot locations, to break current and provide isolation at exceptionally high voltages. OTDC switch-disconnectors meet all these requirements.

Despite its compact size OTDC has very generous insulation voltage ratings. Thanks to its modular design the DC rated operational voltage can be scaled up to 1200 V without increasing the footprint area. PV systems are safe and reliable over a wide voltage range.

Another of its virtues is thermal excellence. As a result of low temperature rises and resistive losses, the application stays cool and energy efficient. In addition, OTDC can be used without derating when the ambient temperatures are above normal conditions.

It is possible to mount OTDC with screws or on DIN-rail. The switch has tunnel terminals that capture fine stranded wires. At the same time, they are wide enough to allow wires up to 16 mm². Short circuit bars come as standard. The installations are perfect and fast every time.

Brings reliability to higher voltages

OTDC switch-disconnectors for 16 to 32 Amperes have various DC voltage ratings with the same footprint area.

The switches are specifically designed for DC use. Despite its compact size OTDC's insulation voltage ratings are very generous. Thanks to its modular design the rated operational voltage can be scaled according to your needs, all the way up to 1200 V. This ensures safe and reliable PV systems at a wide voltage range.

With rising PV system voltages OTDC scales itself to the future

Thermal excellence – It's quite cool

OTDC meets the standard's thermal requirements even in elevated temperatures. Thanks to this OTDC is suitable for warm locations. Low resistive losses minimize the waste of energy, which helps in maximizing total energy efficiency of your PV system.

Keeps your application cool and energy efficient

Simplicity in installation

The DC rated switch-disconnectors are suited for screw or DIN rail mounting. Tunnel terminals capture fine stranded wires and they are wide enough to allow wires up to 16 mm². Short-circuit bars as standard.

Perfect and fast installations every time



OTDC Family - 3 Voltage Ratings

ABB's complete offering

Always ready to meet any new demand from the market, ABB has developed a whole range of reliable products dedicated to photovoltaic applications and is therefore able to meet all installation requirements, from the strings on the direct current side to the alternate current grid connection point.

ABB's product range includes circuit breakers, switch disconnectors, fuse disconnectors and fuses, residual current operated circuit-breakers, grid connection relays, metering devices, surge arresters, consumer units and enclosures suitable for outdoor installation, all specially designed for these applications.

ABB can also provide a series of "plug & play" solutions, i.e. finished, wired and certified string boxes able to suit the requirements of a vast range of installations: from individual strings for residential applications to large photovoltaic plants.

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