

Solar-ready distribution transformers

Transformers designed to match solar inverters

Need a distribution transformer for your solar project right away? ABB now offers a set of distribution transformers pre-designed to meet leading inverter manufacturers' requirements.



Industry challenges:

- Longer approval time for funding
- Solar market operates at faster pace than standard industrial market
- Contractors have less time to purchase materials for solar farms
- Pressure to reduce system / project cost

Situation analysis / background

Today's solar developers, contractors and EPC's are facing long approval time for funding and shorter timeframes to execute their projects.

Pre-designed distribution solar transformers can help reduce overall operating costs to help offset the continued cost pressure on solar generation, providing a faster solar farm implementation and therefore a greater return on investment.

Questions for consideration:

- Are you noticing you have less time to plan your solar project?
- Are you experiencing performance issues with distribution transformers in solar applications?
- Are you under a time crunch to get your farms built and projects executed?
- Do you custom design the transformers for each project?
- How could you benefit from deliveries in half the time of traditional transformer solutions?
- What type of inverters are you using?

An improved approach

With market constraints in mind, ABB has developed a set of distribution transformers for the solar industry to pair with ABB's PVS980 solar inverter sizes. The transformers are designed to optimize the performance, reliability and return on investment of any solar installation – from residential rooftops to commercial and industrial applications and utility-grade power plants in all environmental conditions.

These solar-ready distribution transformers from ABB are specifically matched to solar inverter sizes and the environment. Fast quotation and manufacturing will meet the aggressive time lines for your solar project. With 48 available options to choose from, ABB solutions will save weeks typically required to design new transformers.

The transformers are energy efficient designs based on the ABB PVS980 power and voltage ratings, all of which meet current regulations and standards. Liquid-filled transformers can be manufactured and tested with mineral oil or ester fluids (natural or synthetic).



Benefits of ABB's solar-ready transformers

- Standard designs in your hands quickly
- Short leadtimes to provide quick planning and execution of solar projects, getting you faster return on investment (ROI)
- Quick pricing to reduce project planning cycle

Product features

- Solar transformer matched to ABB PVS980 inverter
- HV (kV): 20, 22, 33, 34.5
- LV (V): 600, 630, 660
- Mineral oil or ester fluids (natural or synthetic) available
- 48 design options with low loss/high loss combinations for the IEC market
- Expedited delivery

ABB as your competitive edge

Pre-designed and optimized transformers from ABB are available. Standardized designs provide a proven solution with lower risks. Each transformer is matched for your ABB PVS980 solar inverters and the unique environment in solar applications. The time required from order to delivery of these specialized units is best in class.

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