

THYCON

Est. 1968



DCM

Double Conversion Module
Commercial Considerations



The Thycon DCM concept has been developed to achieve the highest levels of reliability, cost-effectively and with simplified commercial conditions.

DCMs are based on Thycon's proprietary technology and are supplied by Thycon in several ratings for paralleling into systems of up to 10 MVA.

The control cubicle, which contains the transformer, circuit breakers, static switch and controls, can be assembled local to the client practically anywhere in the world. This cubicle also houses the control cards which are supplied by Thycon and built into the control cubicle by the System Integrator or Distributor.

Thanks to DCM standardisation, costs are held low and maintenance and servicing is inexpensive because of the use of simple air-cooling, a greater reliance on rugged passive components and a minimal number of semiconductors. With the exception of the control cards, all components are standard so a failed thyristor can easily be replaced and sourced locally from its manufacturer or any of its world-wide distributors. This also applies to snubber components, power capacitors and inductors.

This is in stark contrast to most OEMs whose components bear special specification numbers making it obligatory that spares be sourced only from the OEM - often resulting in longer delivery times and significantly higher replacement part costs.

The advantage of using high power building blocks is that an installation may be expanded at any time or indeed, reconfigured to serve in a different location for a different application and this can be done by local integrators independent to the OEM (Thycon). Nevertheless Thycon remains at the Distributor's disposal for advice in modifying the system and/or supplying controller cards.

System Integrators may respond to market needs rapidly by stocking standard DCMs to exchange failed units, expand existing systems or promptly serve new customers to any rating, without long specification negotiations. The central cubicle can be built locally, with locally-sourced components, to the end-customer's needs following Thycon's pre-determined design rules.



The only required stock items are the DCMs. Indeed, stocking “small” standard units allows the assembly of large systems while allowing the testing of any repaired units at manageable power levels (<0.8 MVA). Also, system leasing becomes a viable option since the DCMs can be reconfigured for different applications and rented out again.



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