

The broadest, most reliable range of PWM drives on the market today

General Overview

SILCOVERT TH is a series of medium voltage PWM Voltage Source Inverters for the most demanding applications where reliability and performance are fundamental requirements.

Built around the most up-to-date IGBT technology, its multi-level structure makes it suitable for driving any motor at variable speed in the power range from 400 kVA to 100 MVA up to 13.8 kV.

Plug&Play Containers

Containerized solutions are the ideal choice when space is limited and costly. Our containers, in pre-engineered configurations for outdoor installation, are designed to minimize footprint and simplify system integration.

If you are extending an existing electrical room or installing new equipment in a congested area, you can benefit from these modular configurations that require minimum civil works. Control wiring and power cables have been studied for simple plug&play solution.

Extensive factory testing prior to shipment shortens installation and commissioning time so that your plant is on-line in the shortest possible time.

High performance Drive Series

Efficiency >98%

High efficiency is a must for our drives. A well proven design using the most up-to-date IGBT technology is the basis of the product's reliability. Rigorous quality control during manufacturing guarantees the excellence of our inverters.

Network Harmonics $\leq 3\%$

Our MV drives ensure excellent power factor line-side in every working condition due to the full-wave rectification using multiphase diode operation. The harmonic content meets the most stringent requirements for current and voltage harmonic distortion as defined by IEC and NEMA standards.

MTBF 200.000 hours

The selection of first-class core components such as film capacitors (instead of electrolytic capacitors), high-quality cooling fans from leading manufacturers, tin plated copper bars suitable for harsh environments, and rigorous insulating clearances contribute to maximize availability of the drive.

High Power

By placing modules in parallel we can rapidly configure the drive to match power needs up to 100 MVA (4 containers/VFD in parallel).

Flexibility

We offer a modular and flexible solution, suitable for cabinet and container installation for a wide variety of applications.

Compact

We offer one of the most compact footprints on the market today.

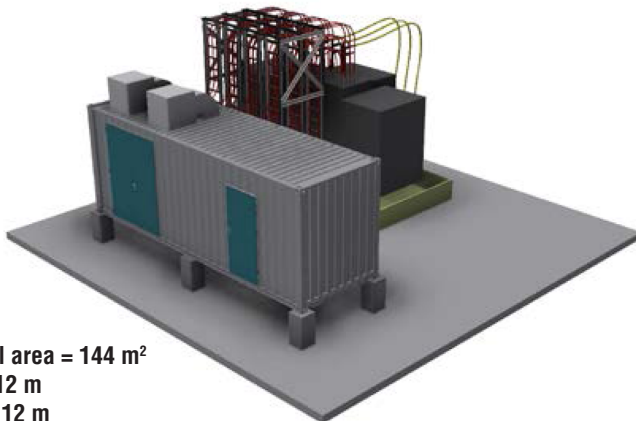
Technical Data

Series 14000 Container Solution				
Motor Shaft Power (kW)	Output Capacity (kVA)	Rated Output Current (A)	Model	Dimensions (L x W x H)
10000 V				
10585	12124	700	SVTH 12K1 W10 24P	7700x2440x2900
12701	14549	840	SVTH 14K5 W10 24P	7700x2440x2900
15877	18187	1050	SVTH 18K2 W10 24P	7700x2440x2900
19052	21824	1260	SVTH 21K8 W10 24P	7700x2440x2900
21169	24249	1400	SVTH 24K2 W10 48P	12190x2440x2900
25403	29098	1680	SVTH 29K1 W10 48P	12190x2440x2900
11000 V				
11643	13337	700	SVTH 13K3 W11 30P	8500x2440x2900
13972	16004	840	SVTH 16K0 W11 30P	8500x2440x2900
17465	20005	1050	SVTH 20K0 W11 30P	8500x2440x2900
20957	24006	1260	SVTH 24K0 W11 30P	8500x2440x2900
13800 V				
14607	16732	700	SVTH 16K7 W13 36P	9400x2440x2900
17528	20078	840	SVTH 20K1 W13 36P	9400x2440x2900
21910	25097	1050	SVTH 25K1 W13 36P	9400x2440x2900
26292	30117	1260	SVTH 30K1 W13 36P	9400x2440x2900

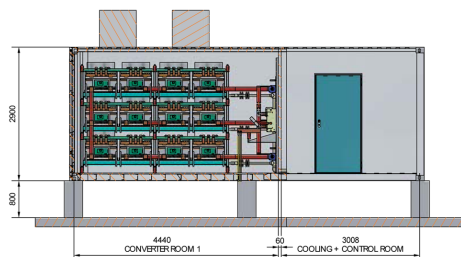
Data about 110% Class 1 and 150% Class 2 is available by request

Examples of our pre-engineered configuration

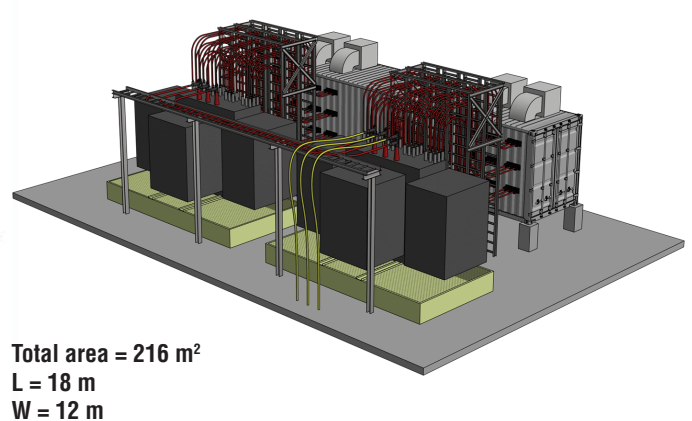
14.5 MVA Solution



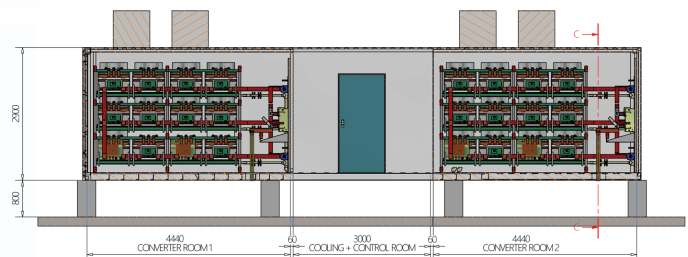
Internal Container Layout



29 MVA Solution



Internal Container Layout



Data about other configurations are available upon request.