

SMART ACTIVE COOLING



KEEP COOL
FOR HIGHEST YIELDS

POWERFUL AND ALWAYS THE BEST TEMPERATURE

Sungrow's Commercial Extreme comes with the cutting-edge technology of smart active cooling. High-quality fans ensure optimal temperature management inside the inverter by adjusting their speed to any ambient temperature changes.

*"For every 10°C temperature rise the lifetime of electronics is cut in half. That's why active cooling is **a must-have** for **getting the best** out of a commercial solar plant."*



Matthias Hartmann
Senior Product Manager
Sungrow Germany

BENEFITS

INSTALLER INVESTOR

smaller heatsink
LIGHT WEIGHT

higher DC/AC ratio
REDUCED COST

compact design
EASY INSTALLATION

tilted
position possible
FLEXIBLE MOUNTING

less maintenance
COST EFFECTIVE

longer lifetime
SECURE INVESTMENT

better derating
HIGHER YIELDS

less inverters for
same output power
LOWER INVEST

DID YOU KNOW?

Inverters reduce output power at high temperatures in order to prevent hardware damage. Dust or dirt accumulation reduces the heat transfer. That's why a **high-quality cooling-system is essential.**

CHALLENGE

Passive, natural or convection cooling can cause losses of yield and lifetime.

SOLUTION

Active cooling ensures longest lifetime while guaranteeing highest yields.

HOT AIR

Heat sink produces hot air that causes a slow airflow, especially at high ambient temperature.

PERFECT TEMPERATURE

Fans push air through heat sink, automatically adjusted at any ambient temperature.

DUST

The slow airflow leads to dust accumulations that reduce the cooling efficiency.

NO DUST

All dust gets pushed out of the inverter by the strong airflow of the active cooling fans.

O&M

The heat sink is a heavy weight and causes high cleaning costs.

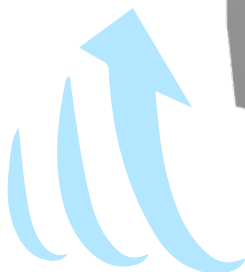
O&M FOR YOU

Maintenance costs are very low and the less weight makes installation much easier.

SMART ACTIVE COOLING SYSTEM

separate cooling chamber

active cooling with high-quality IP68 fans



detailed temperature derating diagrams in product manual

sealed IP66 electronics chamber

plug & play fan for O&M within 1 min

ABOUT SUNGROW

With over 87 GW of clean power presently installed worldwide Sungrow is the global leading solar inverter specialist and the biggest solar inverter manufacturer in the world.

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