

SUNGROW

# Manufacturer Declaration

Sungrow and Tigo optimizer Compatibility



# Manufacturer Declaration

Sungrow confirms that the **SH5.0-10RT-20** and **SH5.0-25T** hybrid inverters are compatible with **Tigo** module-level optimizers, such as **TS4-A-O**, provided the PV system is designed and operated in accordance with the following conditions.

**Conditions:**

- The minimum DC voltage after optimization per roof surface shall be higher than the inverter start voltage, or smaller PV areas may be used solely to support larger strings, or the overall optimized string voltage shall be higher than the inverter start voltage.
- The maximum DC voltage of any complete string shall not exceed 800 V (conservative design limit).
- Partial optimization is permitted.
- Full optimization is permitted.
- The module/string current at the inverter input shall not exceed the maximum MPPT input current of the inverter.
- In double-MPPT configurations with parallel strings connected to the same MPPT, the number of optimizers in each parallel string must be identical, and the roof orientation (tilt and azimuth) of the parallel strings must be the same.

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