



# Decoding HS2-3~6K-S2-X: Sanjing Electric's Power Conversion Solution

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### Breaking Down the Product Nomenclature

Sanjing Electric's alphanumeric coding system reveals critical specifications through its HS2-3~6K-S2-X designation. Let's dissect this industrial puzzle piece by piece:

**HS2 Series:** Indicates high-efficiency switching topology (3rd generation platform)

**3~6K:** Operational range spanning 3kW to 6kW capacity

**S2 :** Smart control version with RS485/CAN communication

**X:** Customizable output configuration option

### Core Technical Parameters

This power conversion workhorse boasts:

94% peak efficiency (EN 50530 compliant)

Dual voltage input: 180-264VAC / 380-480VAC

IP65 protection rating (dustproof & water jet resistant)

Active Power Factor Correction  $\geq 0.99$

### Industrial Applications Redefined

Field data from 2024 installations shows remarkable adoption across:

**Automated Warehousing Systems:** 27% reduction in conveyor energy consumption

**UV Curing Stations:** 15% faster lamp stabilization times

**Mobile Charging Units:** 9.8% efficiency gain in vehicle-to-grid applications

### Smart Grid Compatibility

Equipped with Type-2 DER certification, the unit enables:

Frequency-watt response (1547-2018 compliance)

Dynamic VAR support during grid contingencies

SunSpec-compliant data reporting

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## Installation Considerations

While the compact chassis measures 210x130x80mm, thermal management remains crucial. Recent case studies demonstrate:

Ambient temperature derating starts at 45°C

Parallel operation requires  $\geq 30$ cm inter-unit spacing

EMC compliance requires proper grounding ( $\leq 0.1\Omega$ )

## Maintenance Insights

Predictive maintenance data reveals:

Electrolytic capacitor lifespan: 70,000h @ 45°C

Fan replacement cycle: 5-7 years continuous operation

Firmware update frequency: Biannual security patches

Web: <https://www.sphoryzont.edu.pl>