



SUNVEC 6/10/15KTL-D3 Solar Inverter Technical Overview

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Core Specifications and Application Scenarios

Designed for commercial photovoltaic systems, the SUNVEC 6/10/15KTL-D3 series supports three-phase grid connection with power outputs ranging from 6kW to 15kW. The modular design allows parallel operation for larger installations, achieving up to 98.6% peak efficiency across various load conditions.

Key Performance Features

- Dual MPPT Input: Independent 26A channels support mismatched panel configurations
- Voltage Range: 200-1000V DC input with 150% overloading capability
- Grid Compliance: Meets IEC 62116 anti-islanding requirements
- Protection: IP65-rated enclosure withstands harsh environments

Advanced Monitoring and Control

The integrated RS485/4G communication modules enable real-time data tracking through SUNVEC's proprietary monitoring platform. Users can remotely configure parameters like reactive power compensation settings - particularly useful for installations requiring voltage regulation.

Installation Considerations

- Minimum 50cm clearance for heat dissipation
- Supports both wall-mounting and ground installation
- Automatic firmware updates via Ethernet connection

Safety and Maintenance Protocols

Featuring arc fault detection (AFCI) and rapid shutdown functionality, the system meets NEC 2017 safety standards. Maintenance alerts notify users about:

- Cooling fan performance degradation
- DC capacitor aging (typically 7-10 year lifespan)
- Dust accumulation exceeding 2mm thickness

For technical support, authorized service centers recommend annual professional inspections combined with monthly visual checks by end users.



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