Smart I-V Curve Diagnosis

Smart I-V Curve Diagnosis is based on string I-V curve pattern analysis with advanced diagnosis algorithm, conducting PV plant complete string I-V curve analysis. The online scanning and analysis can help in achieving higher O&M efficiency, proactive maintenance and lower operation cost.
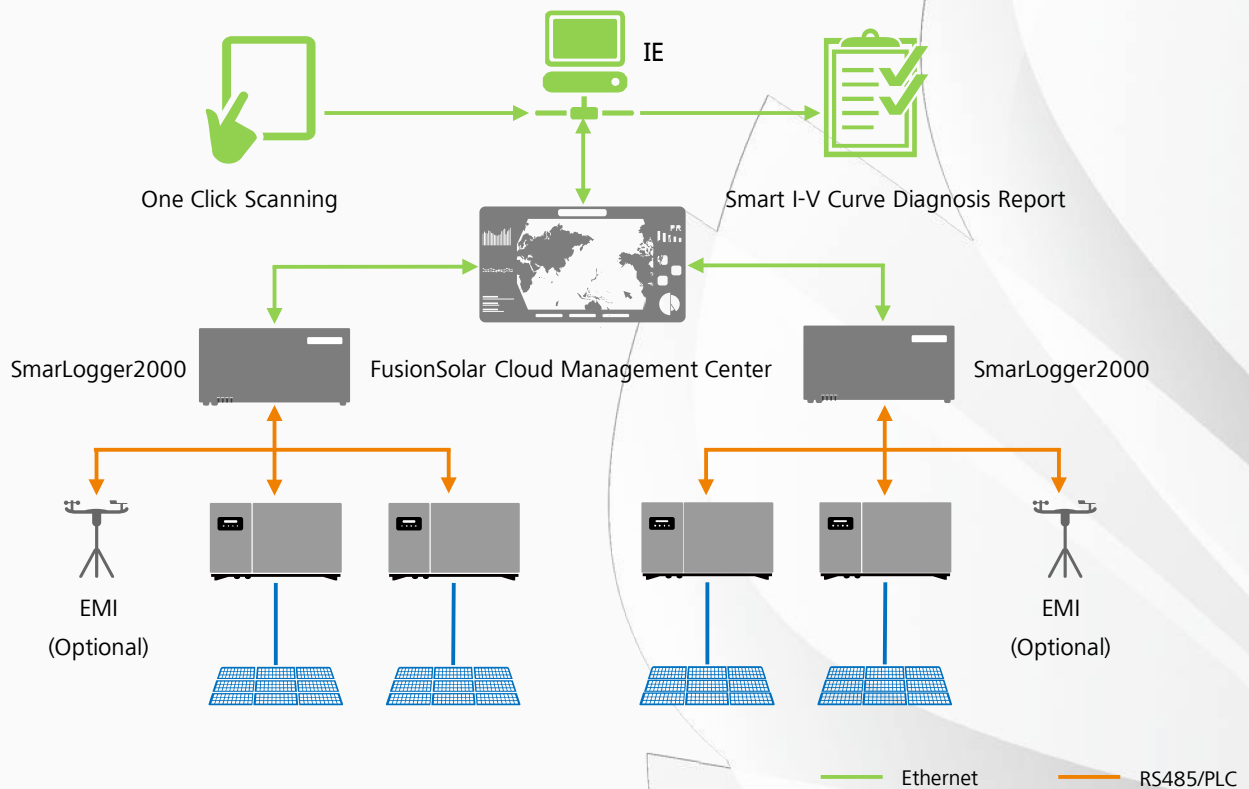
Smart

- Supports plant-level, array-level or inverter-level I-V curve analysis and Diagnosis
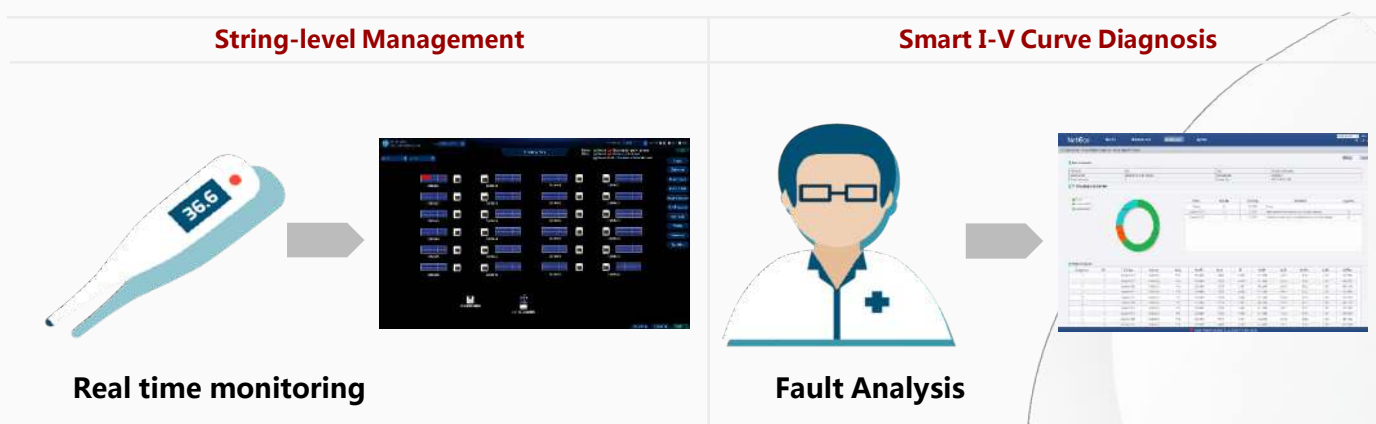- Identifies different module faults with automatic report generation

Efficient

- One click scanning without onsite experts or equipment
- Online I-V curve scanning on entire strings
- Automatic report generation within 10~15min

IE

One Click Scanning

Smart I-V Curve Diagnosis Report

SmarLogger2000

FusionSolar Cloud Management Center

SmarLogger2000

EMI
(Optional)

EMI
(Optional)

Ethernet — RS485/PLC

Smart I-V Curve Diagnosis

Technical Specification	Smart I-V Curve Diagnosis
	Configuration
Smart String Inverter	SUN2000-36KTL/42KTL/60KTL-HV-D1-001, etc.
Data Logger	SmartLogger2000, SmartLogger1000
Management System	FusionSolar Cloud Management Center, NetEco1000s
	Performance
Scanning Time	< 1s
Sampling Points per I-V Curve	128
Voltage Accuracy	0.5%rdg. + 1dgt. (rdg.>5, dgt.=0.3)
Current Accuracy	0.5%rdg. + 2dgt. (rdg.>0.3, dgt.=0.006)

△ TÜVRheinland® **Smart I-V Curve Diagnosis is TÜV Verified**

String-level Management

Real time monitoring

Smart I-V Curve Diagnosis

Fault Analysis

String I-V Curve Cases

Normal Curve — Abnormal Curve with Shading on Modules

Voltage [V]

Normal Curve — Abnormal Curve with String Current Mismatch

Voltage [V]

Always Available for Highest Yields

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