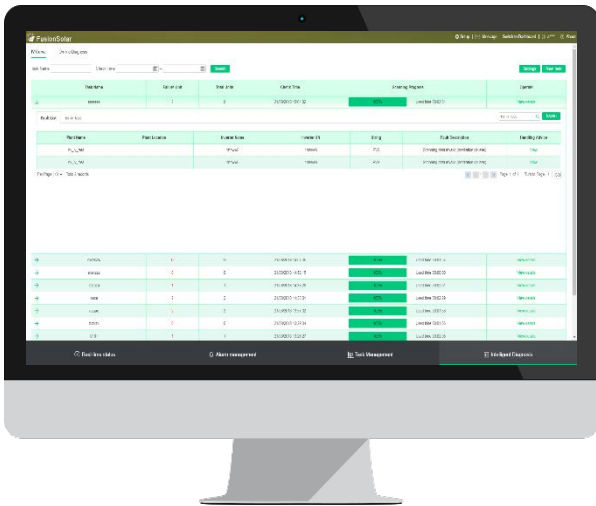# Smart I-V Curve Diagnosis

Smart I-V Curve Diagnosis is able to carry out online I-V curve analysis on entire strings with advanced diagnosis algorithm. The scanning would help to find out and identify the strings with low performance or faults, which would help to achieve proactive maintenance, higher O&M efficiency and lower operation cost.
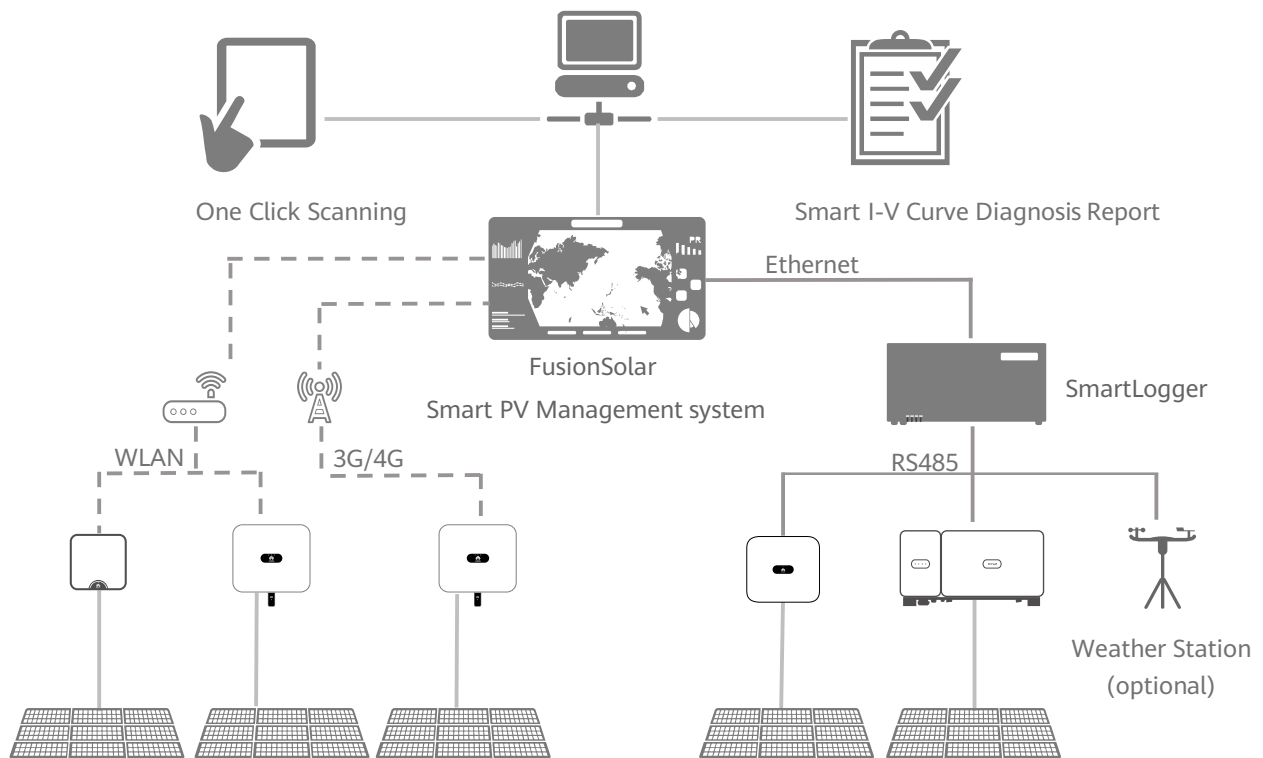

Smart

- Support plant-level, array-level and inverter-level analysis and diagnosis
- Automatically identify different failure types and provide recovery suggestion

Efficient

- One-click scanning without onsite experts or equipment
- Online I-V curve scanning on entire strings of 5 MW plant within 5min
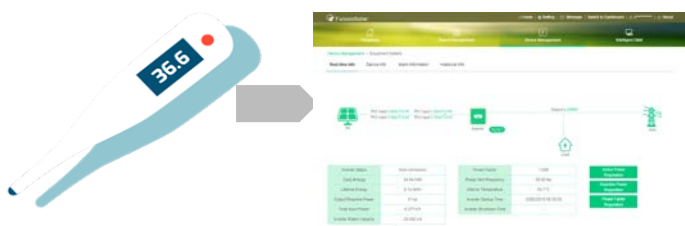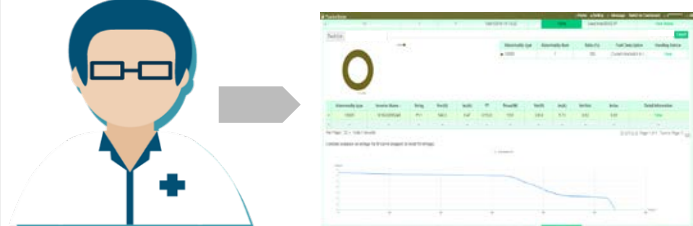- Automatic report generation of 5 MW plant within 15min

Network

One Click Scanning

Smart I-V Curve Diagnosis Report

FusionSolar
Smart PV Management system

Ethernet

SmartLogger

WLAN

3G/4G

RS485

Weather Station
(optional)

Smart I-V Curve Diagnosis

Technical Specifications	Smart I-V Curve Diagnosis
Smart PV Inverter	SUN2000L-2/3/3.68/4/4.6/5KTL*, SUN2000-3/4/5/6/8/10KTL-M0, SUN2000-12/15/17/20KTL-M0, SUN2000-33KTL-A/36KTL, SUN2000-60KTL-M0
Communication	SmartLogger2000, SmartLogger1000A, SmartLogger1000, Smart Dongle
Management System	FusionSolar Smart PV Management System, NetEco1000s
Scanning Time	< 1s (1 string)
Sampling Points per I-V Curve	128
Certification	TÜVRheinland® TUV

* I-V curve diagnosis is not supported when inverter is connected with power optimizer.

String-level Management	Smart I-V Curve Diagnosis
Real time monitoring	Fault Analysis

String I-V Curve Comparison