Get FusionSolar with peace in mind

Excellent product quality with extendable warranty to protect your investment

FusionSolar Commercial & Industrial Smart PV Solution

- Smart PV Controller
  - SUN2000-12/15/17/20KTL-M2
- Smart PV Controller
  - SUN2000-30/36/40KTL-M3
- Smart PV Controller
  - SUN2000-50/60KTL-A0
- Smart Dongle-4G/WLAN-FE
  - Connect up to 10 inverters to the FusionSolar Portal
- SmartLogger3000A
  - Connect up to 80 inverters to the FusionSolar Portal
  - * Only Support SUN2000-12-20KTL-M2, SUN2000-30-40KTL-M3

Smart PV Controller
- SUN2000-100KTL-M1
- SUN2000-100KTL-M1 Pro

FusionSolar Portal & APP
- Manage energy generation and consumption anytime and anywhere

Smart Power Sensor
- DTSU666-H 250A/50mA (Three Phase)
- Manage power export limitation

Smart PV Optimizer
- SUN2000-450W-P
- Power optimization of each module
  - * Only Support SUN2000-12-20KTL-M2, SUN2000-30-40KTL-M3

Available Now

Where to buy

Please put your information / namecard here

Contact Us
Huawei FusionSolar
@HuaweiFusionSolar
community.solar.huawei.com

The most significant developments and pioneering solutions in the solar industry...
- 2019 InterSolar, Munich, Germany
**Know**

Huawei with 5 Numbers

- **170+** Countries & regions with Huawei products and services
- **14** Research institutes/labs/centers
- **194,000** Huawei employees worldwide
- **130GW+** Huawei inverters deployed worldwide

---

**Optimal Electricity Cost**

Up to 30% More Energy by Optimizers

![Without Optimizer](image1.png)

Without Optimizer

- Weak modules reduce the performance of all modules in the string

![With Optimizer](image2.png)

With Optimizer

- Allow to install more modules and other modules’ performance is not impacted

Built-in PID Recovery, Secure Better Module Performance

![Effortlessly adapt module performance](image3.png)

When the inverters are all gray at night, an offset DC voltage is applied between the inverter PV and Ground. This effectively increases the voltage of the PV string with respect to Ground.

Huawei inverter with PID recovery increases energy yield by 1.59% within 6 months.

- **Nissan Car Park Solar**
  - **4MW**
  - **J brand PV Module: 265W**
  - **Huawei inverter: 50KTL**

---

**Active Safety**

DC Arc Fault Has Been Found the Major Cause of Fire in PV System

- **What is Arc Fault?**
  - Electrical breakdown of air that produces a prolonged electrical discharge
- **What is the harm?**
  - Temperature reaching above 3000℃, easily causes fires
- **Where Does Arc Fault Occur in PV System?**
  - Leaks or incompatible PV connectors - Broken PV cables

AI Powered Active Arcing Protection

What is AI Powered AFCI (Arc Fault Circuit Interrupter)?

- **Intelligent**
  - Self-learning new arc features with AI model
- **Accurate**
  - Accurate arc fault detection via local neural network algorithms
- **Speedy**
  - Speedy arc fault protection by inverter shutdown in 0.5s

---

**Better Experience**

No Fuse & Other Quick-wear Parts, Natural Cooling

- **<40 sec Module Auto-Mapping**

- **Saving 95% configuration time compared with other solutions**

<table>
<thead>
<tr>
<th>Configuration Time</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Huawei Solution</strong></td>
</tr>
<tr>
<td>Manual: 30min</td>
</tr>
<tr>
<td>AI powered: 30sec</td>
</tr>
</tbody>
</table>

Online Smart I-V Curve Diagnosis, Module Touch Free

- **Online diagnosis in 2min**
  - 100% string scanning
  - Auto diagnosis report generated in 10min*

- **Almost Zero yield loss**

* For typical MW system

---

**Operating Steps**

<table>
<thead>
<tr>
<th>Huawei Solution</th>
<th>Other Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart PV Optimizer</td>
<td>No LCD No Button</td>
</tr>
<tr>
<td>TUV verified: annual failure rate &lt; 0.5%</td>
<td>No Fuse</td>
</tr>
<tr>
<td>Inverter availability up to 99.996%</td>
<td>Natural Cooling</td>
</tr>
</tbody>
</table>

---

**Conventional offline diagnosis**

- **100% string scanning**
- **Manual data analysis & Report Writing**
- **1%-10% sample scanning**

**Huawei smart online diagnosis**

- **0.12%**
  - **n-detection accuracy**
  - **0.93% 0.98% 1.54% 1.59%**

**Without Optimizer**

- **0.31%**
  - **Optimizers built-in PID Recovery**
  - **Smart PV Optimizer**

**With Optimizer**

- **Yield difference with & without PID recovery**
  - **200m Max-detection distance**
  - **26A True-sensing detection**
  - **Pinpoint direction**

<table>
<thead>
<tr>
<th>Yield difference</th>
<th>0.31%</th>
</tr>
</thead>
</table>
| Optimizer
| Without PID recovery |

---

**Smart PV Optimizer**

- **TUV**
- **Accurately diagnosis of 14 types of module faults**
- **Convenient in the field**
- **100% smart scanning**
- **Auto detection report generated in 10sec**
- **Almost Zero yield loss**

---