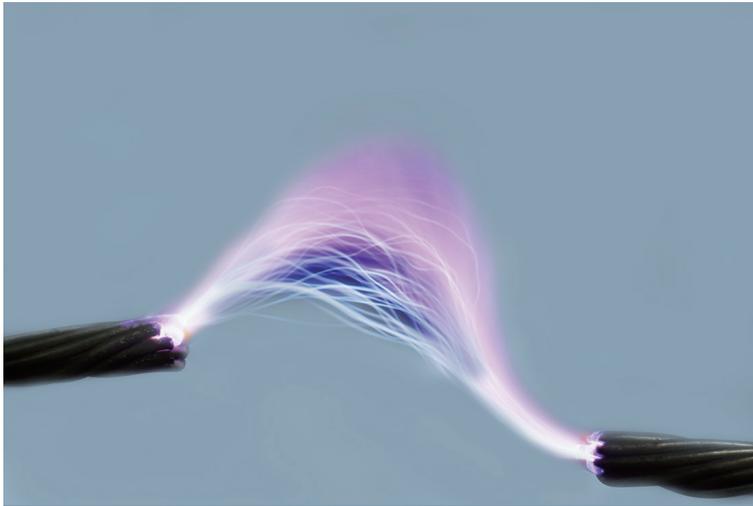


HUAWEI AI BOOST AFCI



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 of Arc Fault in PV System ?

-  Temperature reaching above 3000°C, easily causes fires
-  Pose risk to installer and firefighter under high DC voltage

Where Does Arc Fault Occur in PV System ?

Poor welded PV module junction box, broken PV cables, loosen or incompatible PV connectors, etc.

HUAWEI AI BOOST AFCI to Proactively Mitigate Fire Risk

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

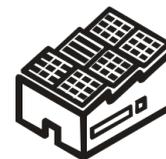
HUAWEI inverter keeps self-learning new arc feature to accurately protect system from arc fault, even under complex noise.



Residential AFCI Solution

	HUAWEI	Others
Arc fault detection accuracy ¹	99.9%	50-60%
Arc fault protection cycle-time	300-400 ms	2.5 s
Module level arc fault position alert ²	Yes	No
Support Inverter Models:	SUN2000-3/4/5/6/8/10KTL-M0 New: SUN2000-2/3/3.68/4/4.6/5/6KTL-L1 ³ SUN2000-3/4/5/6/8/10KTL-M1 ⁴	

1. With or without power optimizer
2. Full power optimizer required.
3. Available in 2020. Q2
4. Available in 2020. Q3



Commercial and Industrial AFCI Solution

	HUAWEI	Others
Arc fault detection accuracy	99.9%	50-60%
Arc fault protection cycle-time	300-400 ms	2.5 s
Max distance of arc detection ¹	200 m	80 m (UL1699B)
Max current of arc detection ¹	26 A	16 A (UL1699B)
Support Inverter Models:	SUN2000-12/15/17/20KTL-M0 SUN2000-36KTL (AFCI Version) New: SUN2000-12/15/17/20KTL-M2 ² SUN2000-30/36/40KTL-M3 ² SUN2000-100KTL-M1 ²	

1. Function available for new models in 2020 Q3
2. Available in 2020. Q3