

AFCI Protection

Arc Interrupter



Arc Protection Box



PLC Transceiver



LoRa



Bluetooth



Wi-Fi

Product Features



Rapid Arc Protection

Quickly detects and extinguishes arcs to protect the PV system



Flexible Configuration

Arc Interrupter : No limitation on number of strings
Arc Protection Box : Each unit is equipped with 4-channel arc fault detection



1100V/1500V Max. System Voltage

Arc Interrupter : 1500 Vdc
Arc Protection Box : 1100 Vdc



Communication Technology

Arc Interrupter : PLC / LoRa
Arc Protection Box : Bluetooth & Wi-Fi



Supports Remote Monitoring

Arc Interrupter : Remote data monitoring via platform
Arc Protection Box : Remote fault monitoring via APP



Higher Ingress Protection Rating

Arc Interrupter : IP68
Arc Protection Box : IP66

Model	FR-AFCI-KNJC / KNJW	FR-AFCI-B04A
Max. System Voltage	1500 Vdc	1100 Vdc
Max. Input/Output Current	20 A	
Max. Short Circuit Current	25 A	
Communication Method	PLC / LoRa ¹	Bluetooth & WiFi
Voltage Range For Operation ²	20 Vdc ~ 60 Vdc	100 Vac ~ 260 Vac
Operating Ambient Temperature	-30 °C ~ +70 °C	-20 °C ~ +60 °C
Installation Method	PV Rail ³	On the Wall
IP Rating	IP68	IP65
Arc Response Time	≤ 2.5 s	
Types Of Arc	UL1699B (Type 1)	
Dimension ⁴ (Without Cable & Connectors)	132×120×45 mm	240×160×75 mm
Max. Number of Strings	1	4
Standard Features		
String-level Arc Protection	√	√
Data Monitoring	√	—
Fully Automatic Arc Extinguishing	√	√
Advanced Features		
Arc Protection Record	√	—
Alarm and Active Protection	√	√
Real-time Status Display	√	√

*1 FR-AFCI-KNJC (PLC communication) / FR-AFCI-KNJW (LoRa communication)

*2 Arc Interrupter power supply by PV panel. Arc Protection Box power supply by AC.

*3 The product is designed exclusively for installation on PV rail and should not be installed on the module frame.

*4 Not included the antenna size of KNJW.

