Solar (PV) Application Products

1500 V Dc Solar Fuse Products

SPXC Series Fuses

- 1500 V dc • 1–4 A
- 10 x 57 mm
- UL 248-19 Listed
- Meets IEC 60269-6*
- Up to 50,000 A interrupting
- Ferrule or PCB mount available
- Application: string inverters

SPXV Series Fuses

- 1500 V dc • 1–60 A
- UL 248-19 Listed
- TUV - IEC 60269-6
- Applications: inverters and combiner boxes
- SPXVS silver-plated series available

SPXI In-line Series Fuses

- 1500 V dc • 1–60 A
- UL 248-19 Listed
- TUV - IEC 60269-6*
- Accommodates large wire range
- No fuse holder required
- Application: PV wire harness (eliminate combiner boxes)

SPNH Series Fuses

- 1500 V dc • 50–400 A
- UL 248-19 Listed
- Meets IEC 60269-6
- Bolted directly onto busbar or inserted into fuse blocks
- Applications: inverters and re-combiners

LFXV15 Series Fuse Block & Cover

- Dead-front cover for protection
- Ventilated design keeps fuse cool
- Easy fuse removal, no tools required
- 35 mm DIN-rail mountable
- Holds 20 x 127 mm 35–60 A SPXV fuses

LFPXV Series - Touch-Safe Holders

- Finger-safe design
- No fuse pullers or tools required
- 35 mm DIN-rail mountable
- Holds 10 x 85 mm SPXV/SPXVS fuses

1000 V Dc Solar Fuse Products

SPFI In-line Series Fuses

- 1000 V dc • 2–30 A
- UL 248-19 Recognized
- TUV - IEC 60269-6*
- No fuse holder required
- Application: PV wire harness (eliminate combiner boxes)

SPF Series Fuses

- 1000 V dc • 1–30 A
- UL 248-19 Listed
- TUV - IEC 60269-6
- Ferrule or PCB mount available
- Applications: combiner boxes, inverters, and battery charge controllers

LPHV Series Fuse Holders

- Touch-safe design offers protection
- 35 mm DIN-rail mountable
- Designed to hold SPF 1000 V dc fuses

SPFJ Series Fuses

- 1000 V dc • 70–450 A
- Listed to UL 248-19 (PV) and UL 248-8 (Class J)
- Meets IEC 60269-6*
- Compact footprint reduces panel size
- Applications: re-combiner boxes and inverters

LFJ1000 Series Fuse Blocks

- 1000 V dc fuse block
- UL 4248-18 Listed
- Available in clip or stud configurations
- Designed to hold SPFJ fuses

High-Speed Protection

PSR High-Speed Series Fuses

- 550–1300 V ac and 500–1000 V dc
- 40 A–2000 A
- UL 248-13 Recognized
- Meets IEC 60269-4
- Optional remote indication micro-switch available
- Applicaton: dc couple PV-BESS central inverters

PSX Series High-Speed Square Body Fuses

- 1500 V dc • 80–1400 A
- Dc breaking capacity up to 250 kA at 1500 V dc
- UL248-13 Recognized
- Meets IEC 60269-4
- Optional remote indication micro-switch available
- Application: hybrid PV-BESS inverters

Switch Products

Dc Disconnect Switches

- 1000 and 1500 V • 200, 320, 400 and 500 A
- Design eliminates need for external bridging links (jumpers) to lower heat dissipation and save installation time
- Applications: combiner boxes, array combiners and string inverters

Class J Fuse Disconnect Switches

- 600 V ac voltage rating
- 30 A, 60 A, 100 A and 200 A
- Breaks circuit upstream and downstream enabling the switch to handle higher voltages and provide a longer switch life
- Small footprint saves space and provides design flexibility
- Applications: Auxiliary Services Transformer (SSVT) in central inverter and string inverter

*Meets electrical performance requirements

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Solar (PV) Application Products

Ground Fault Protection

SE-601 Series Ground-Fault Relays

- Provides sensitive ground-fault protection for ungrounded systems
- Application: central inverters

EL731 Series Earth Leakage Relays

- Provides sensitive earth-leakage protection for grounded systems
- Application: central inverters

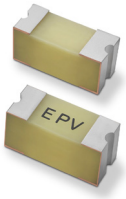
600 V Dc Solar Products

IDSR Series Indicator® Fuses
KLKD Series 10 x 38 (Midget) Fuses

- 600 V ac/dc
- KLKD UL 248-19 Listed
- Applications: combiner boxes, inverters, battery chargers and high amp power distribution
- Negative terminal combination blocks available

100 V Dc and Below Solar Products

400PV Series – 2410 Photovoltaic Fuse



- 86 V dc • .375 A
- Recognized to UL/CSA 248-1 and UL/CSA 248-19
- Wide temperature operating range
- 2410 size; surface mountable
- Applications: photovoltaic shingles and cells

Arc-Flash Protection

AF0025 & PGR-8800 Arc-Flash Detection Relays

- Reduces arc-fault damage
- Applications: combiner boxes and central inverters

Solar Applications

A Central Inverter
600 V to 1500 V Fuses
Power Distribution Blocks
Dc Earth Leakage/Gound-Fault Relays
Varistor Products
1000 V to 1500 V High-Speed Semicondutor Fuses
Temperature Sensors
Arc-Flash Relays
Class J Fuse Disconnect Switches

B Small Inverter
TVS Diodes/SCRs
Varistor Products
Temperature Sensors

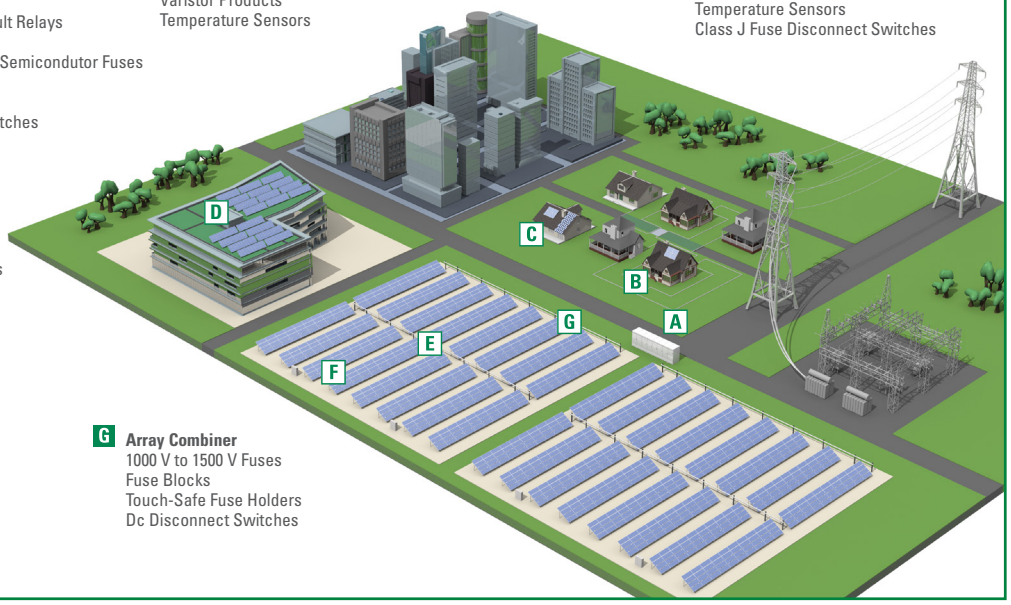
C Micro Inverter & Solar Shingles
TVS Diodes/SCRs
Varistor Products
Temperature Sensors
86 V Surface-Mount Fuse

D String Inverter
600 V to 1000 V Fuses
Touch-Safe Fuse Holders
Power Distribution Blocks
Varistor Products
Dc Disconnect Switches
Temperature Sensors
Class J Fuse Disconnect Switches

E Wiring Harness
1000 V to 1500 V In-Line Fuses

F Combiner Box
1000 V to 1500 V Fuses
Touch-Safe Fuse Holders
Power Distribution Blocks
Dc Disconnect Switches
Arc-Flash Relays

G Array Combiner
1000 V to 1500 V Fuses
Fuse Blocks
Touch-Safe Fuse Holders
Dc Disconnect Switches



With over 60 million devices installed in photovoltaic power systems, Littelfuse understands the global challenges of the solar market. We offer numerous circuit-protection products that are uniquely suited to protect the equipment and systems subject to the harsh environments of standard photovoltaic installations. For more information, visit **Littelfuse.com/Solar**

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