Shanghai NewTrend Electric

RD-30 1-Pole PV DC Fuse Holder, 1100 V DC, 30 A, 10 × 38 mm

The RD-30 is a single-pole photovoltaic fuse holder with a pull-out carrier and a fuse-status indicator window. It accepts a compatible 10 × 38 mm fuse link selected for the circuit voltage, current and prospective fault level.



Model	RD-30
Product type	PV DC fuse holder
Utilization category	DC-PV0
Rated operational voltage (Ue)	1100 V DC
Maximum rated holder current	30 A
Manufacturer reference current range	1–30 A; actual operating current is subject to the selected fuse link and derating
Poles	1P
Compatible fuse-link size	10 × 38 mm
Rated insulation voltage (Ui)	1200 V
Rated impulse withstand voltage (Uimp)	6 kV
Maximum acceptable power dissipation	4 W
Ingress protection	IP20
Construction	PA66 housing; pull-out carrier with status window
Rated limiting short-circuit current (manufacturer catalogue)	30 kA with the specified protective arrangement; verify the fuse-link and assembly rating
Manufacturer reference standards	IEC/EN 60947-1 and IEC/EN 60947-3

Isolate the circuit before opening the fuse carrier or replacing a link. Fuse-link selection determines the protective characteristics of the assembly.

Fuse holder and fuse-link reference

Parameter	RD-30 holder	RF-30 fuse-link reference
Reference standards	IEC/EN 60947-1; IEC/EN 60947-3	EN 60269-1; EN 60269-6
Operational voltage	DC 1100 V	DC 1000 V
Current range	1–30 A	6, 8, 10, 12, 15, 16, 20, 25, 30, 32 A
Maximum acceptable power dissipation	4 W	4 W
Fuse-link dimensions	10 × 38 mm	10 × 38 mm
Catalogue short-circuit reference	30 kA, assembly conditions apply	20 kA, exact link conditions apply

The fuse-link reference has a lower voltage rating than the holder. Select the complete assembly for the circuit voltage.

Construction and operating features

Pull-out carrier provides access for replacement of the cylindrical fuse link after circuit isolation.

Status window provides the manufacturer-described fuse indication.

PA66 housing and busbar-compatible arrangement support modular PV circuit assembly.

The selected fuse link provides overload and short-circuit protection within its verified ratings.

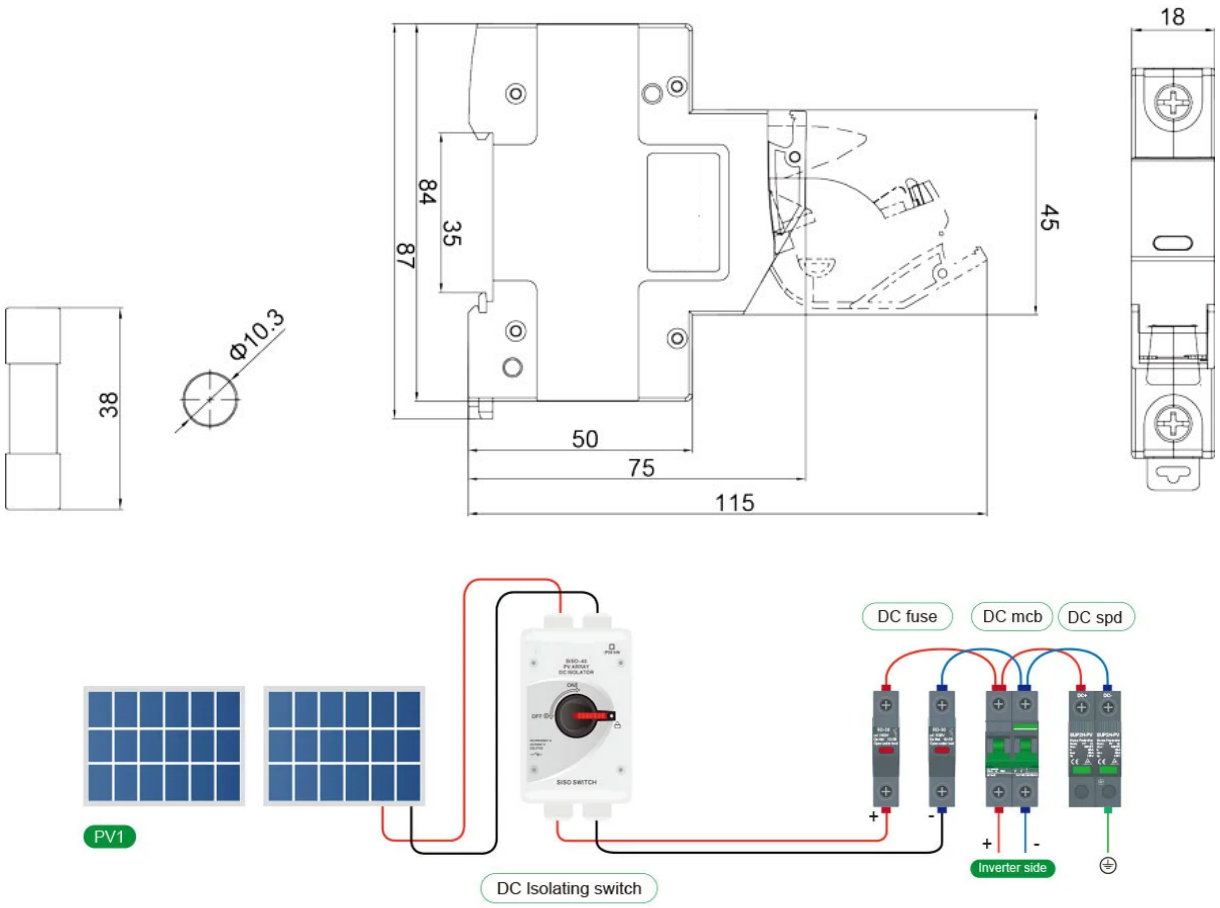
Compatible fuse links

The photo illustrates the 10 × 38 mm fuse-link format. Check the exact link voltage and current rating and confirm what is supplied with the holder. The separate RF-30 link shown in the manufacturer comparison table is listed at 1000 V DC, so its voltage rating must be checked against the circuit.

Typical applications

PV string fuse mounting in combiner boxes and DC distribution enclosures. Inverter-side PV DC circuits using a compatible cylindrical fuse link.

Installation dimensions and PV wiring reference



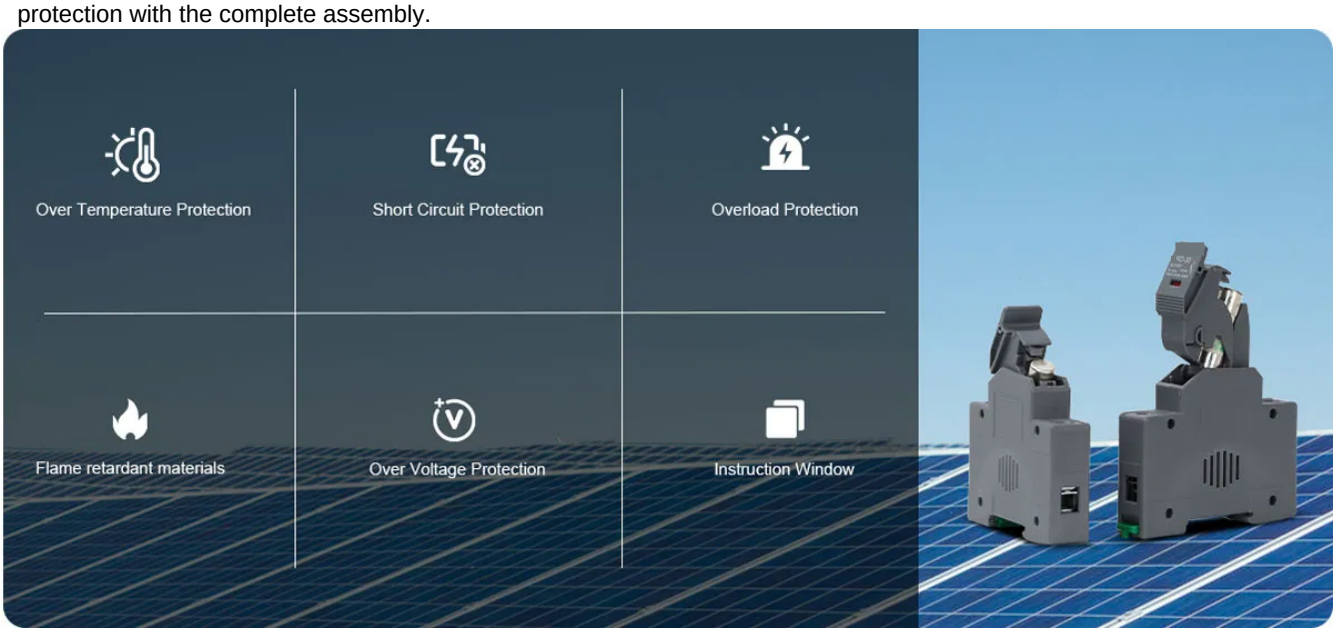
Cabinet derating reference

Adjacent poles	Ambient (°C)	Cabinet temperature (°C)	Derating factor
1–4	25	30	1.00
1–4	30	40	0.93
1–4	40	50	0.90
1–4	50	60	0.85
5–24	–11	30	0.90
5–24	3	40	0.85
5–24	18	50	0.75
5–24	40	60	0.60
5–24	55	65	0.50
5–24	60	70	0.45
5–24	65	75	0.60

Manufacturer reference for a 0.1 m³ cabinet. For assemblies above five poles, the reported reference data were measured with 24 poles energized. Consult the manufacturer for any non-monotonic points and use the verified assembly derating for the installation.

Pull-out carrier and status window

The manufacturer describes the window as an indication of an operated fuse. Isolate the circuit before opening the carrier. Protection functions illustrated in the manufacturer graphic depend on the selected fuse link and circuit. Verify the required protection with the complete assembly.



Material test reference

This manufacturer photograph shows a material test setup. The web graphic and catalogue state different flammability classifications. Confirm the applicable test standard and classification for the supplied assembly.

