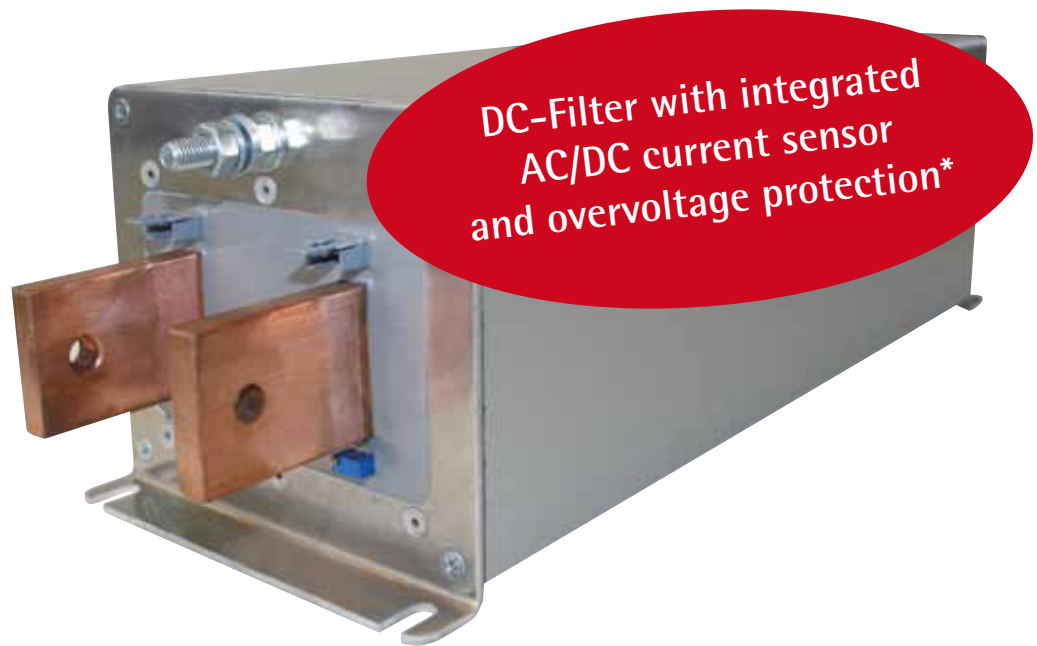


# DC-filter for photovoltaics for (2 lines) for suppression of conducted interference in the DC circuit

Mains filters work in both directions. In practical use, this means that end devices are protected from undesirable high frequencies. On the other hand, the mains supply is protected from the propagation of possible HF generated by the end devices.

This passive filter counteracts the generated high-frequency interference, thus minimizing their propagation into the mains network.

The DC-filter suppresses interferences of inverters for renewable energies like solar and wind power.



## Conforms to:

VDE 0565-3/ IEC 950/ UL 1283  
Climatic category: DIN IEC 60068-1

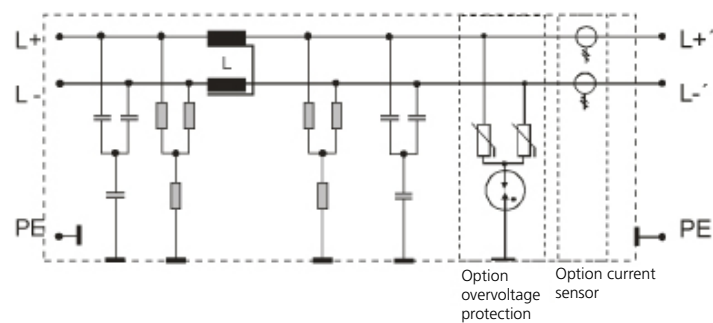
## Advantages:

- Protection of solar cells from high frequency noise generated by the inverter
- Designed to conform to existing and planned standards, especially concerning DC circuits
- Optional with current transformer
- Compact construction
- Low temperature rise
- Universal protection for all inverters
- Optional anti-surge protection

## Technical data:

Type	Rated voltage [V]	Rated current [A]	Leakage current [mA]	Inverter Power [kW]	Losses [W]
CNW 173/25	1000 V DC	25	<30	10	12
CNW 173/50		50	<30	20	12
CNW 173/75		75	<30	30	15
CNW 173/100		100	<30	40	20
CNW 173/150		150	<30	60	24
CNW 173/250	1000 V DC (1500 V DC)	250	<30	100	10
CNW 173/400		400	<30	150	16
CNW 173/600		600	<30	250	28
CNW 173/800		800	<30	350	28
CNW 173/1000		1000	<30	400	35

## Circuit example:

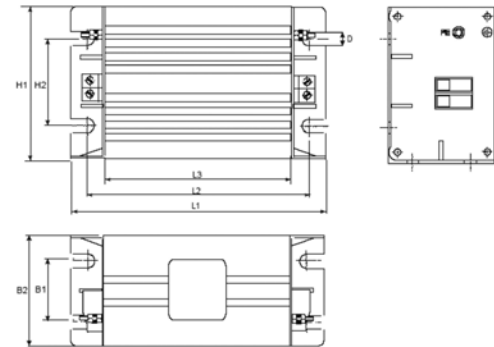


# DC-filter for photovoltaics for (2 lines)

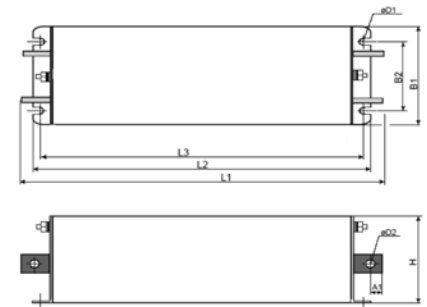
## Dimensions:

Type	Design	Dimensions									Connections
		L1 (mm)	L2 (mm)	L3 (mm)	B1 (mm)	B2 (mm)	H1 (mm)	H2 (mm)	D1 (mm)	D2 (mm)	
CNW 173/25	1	282	265	250	54	25	81	50	7	-	Clamps 10mm <sup>2</sup> HV
CNW 173/50											
CNW 173/75											
CNW 173/100											
CNW 173/150											
CNW 173/250	2	310	280	255	140	120	125	-	7	-	Clamps 95mm <sup>2</sup> HV
CNW 173/400											
CNW 173/600											
CNW 173/800											
CNW 173/1000											

Design 1



Design 2



## Optional integrated AC/DC current sensors type WKO/AT



The REO sensors use a Hall-effect device in their magnetic circuit to measure the primary current, which is electronically converted to a proportional output current. It measures frequencies up to 150 kHz.

- ° Fast Response
- ° Excellent linearity

The current sensors are integrated into the filter and are ready for connection. There is no additional installation effort required.

**Attention! This option will change the mechanical dimensions of the filter!**

## Optional overvoltage protection CNW 7010

By using the CNW 7010 in a harmful components for surge a multi-layered protection, which protects the components from damage and guarantees fast and safe discharging to ground. Efficient protection against power surges caused by switching, lightning and transients. The combination of gas arresters and varistors, the advantages of both components are optimally utilized.

Type	Rated voltage [V]	Surge current [kA]
CNW 7010	1200	10

