AEO | TECHNICAL DOCUMENTS

KLK Power and Ethernet Surge Protectors — Installation Notes

English · Revision EN-20261101-V178

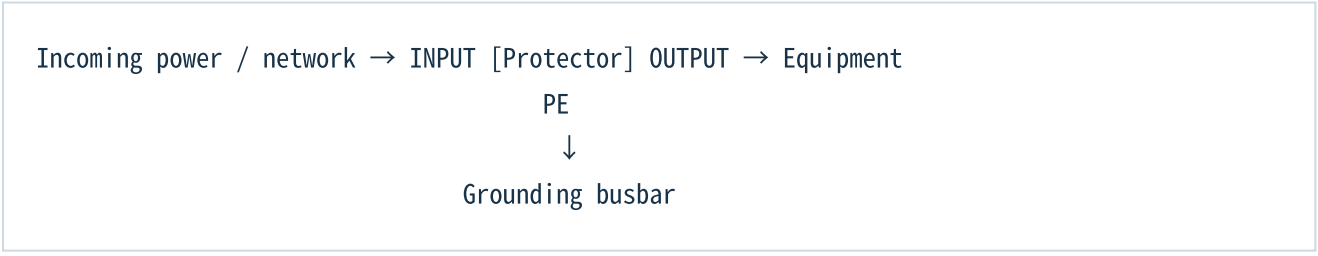
Translated installation instructions for the 12 V, 24 V, 220 V and RJ45 variants described in the Chinese KLK power/network surge-protector manual. Check the exact variant before wiring.

Before installation

- Installation and maintenance are for qualified personnel. Disconnect power before installation.
- Match the protector's rated supply and protected circuit to the installation.
- For outdoor installations, prevent rain or water from entering the device.
- Do not dismantle the unit. Have servicing carried out by qualified personnel.

Connections

1. Install the protector in series between the incoming line and the protected equipment.
2. Connect the incoming line to INPUT and the protected device to OUTPUT. Do not reverse these connections. Secure the connectors.
3. Connect PE securely to the lightning-protection grounding system.
4. The source specifies copper grounding conductors greater than 4 mm², a run shorter than 1 m to the grounding busbar and ground resistance no greater than 4 Ω. Keep the conductor short and direct; have the installation's grounding and bonding design checked by its qualified designer.



Variant ratings from the source

Power variant	12 V / 24 V / 220 V, according to model.
Maximum continuous voltage Uc	12 V and 24 V variants: 36 V. 220 V variant: 385 V.
Power protection level Up at 3 kA	12 V and 24 V variants: 75 V. 220 V variant: 770 V.
Nominal discharge current In (8/20)	Power and network circuits: 5 kA.
Maximum discharge current Imax (8/20)	10 kA.

Response time	Power: <25 ns. Network signal: <1 ns.
Rated power load current	10 A.
Network signal	3 V; 10/100/1000 Mbps auto-negotiation; conductors 1–8 protected.
Interfaces	Power: pluggable terminal block. Network: RJ45.
Construction	IP30; 90 × 60 × 30 mm. The listed failure mode is short circuit to ground.

Apply only the ratings corresponding to the selected protector. A power-and-Ethernet model and an Ethernet-only model do not have the same set of connections.

Source: Chinese source document / product specifications
www.aeo-cctv.com/en/