

ATK-DC01

ANTIK DC BOX Single String



Complete photovoltaic
systems protection



Overvoltage
Protection type T1/T2



Resistance to extreme
weather conditions

Distribution box with overvoltage protection

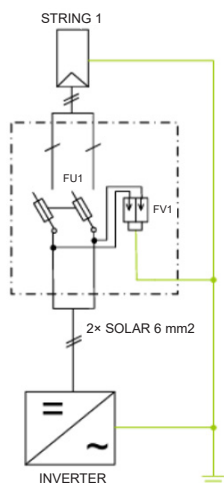
ANTIK DC BOX with surge protection of photovoltaic panels is an excellent choice for various applications in small and medium-sized enterprises, as well as for home installations. Thanks to its high resistance, advanced protection properties and installation flexibility, it provides a reliable and efficient solution for a wide range of applications, thereby ensuring maximum safety and performance of photovoltaic systems.

One of the key features of the ANTIK DC BOX distribution box is its **protection class IP65**. This high degree of protection ensures excellent resistance against dust and water, thus enabling the use of the cabinet in various operating environments. Thanks to this feature, the flexibility of its deployment is significantly increased, as it reliably protects electronic components even in difficult conditions.



ANTIK
solar technology

SINGLE-POLE CONNECTION DIAGRAM



TECHNICAL PARAMETERS SINGLE STRING DC BOX ATK-DC01

Parameter	Value
Number of PV chains	1
Number of surge arresters	1
Surge arrester	Phoenix T1/T2
Rated voltage from the surge conductor	600 V DC
Number of fuse disconnectors	1
Type of fuse	cylindrical 10 × 38 mm
Maximum current	16 A
Protection	IP65
Warranty	5 years
Rated insulation voltage	1500 V DC
Weight	2,20 kg
Dimensions	201 × 202 × 120 mm

DC FUSE HOLDER FOR OVERCURRENT PROTECTION

The fuse holder **ATK-RT132** is intended for circuits with fuse with a **rated DC voltage of up to 1,000 V and a rated current of 16 A**. They are used in series-parallel connection

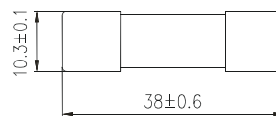
with photovoltaic panels and batteries. They provide short-circuit protection in charging converters and at the same time protect photovoltaic power plants, combined inverter and rectifier systems from short-circuiting. Fuses enable quick protection against impact or short-circuit current in photovoltaic systems with a **nominal current breaking capacity of up to 33 kA**. The product meets the national standard GB/T13539.6 and the international standard IEC60269-6.



DESIGN FEATURES

The fuse insert is made of a silver strip with a variable cross-section and placed in a fuse case made of high-strength material. The case is filled with chemically processed high-purity silica sand and special chemicals as an arc dampening agent. The ends of the fuse are spot welded and firmly connected to the contacts.

TECHNICAL PARAMETERS FUSE ATK-PV-30



Parameter	Value
Rated voltage (V)	1000
Rated current (A)	16
Dimensions (mm)	10 × 38
Power loss (W)	≤ 4,5

PV SURGE PROTECTOR ATK-PV-550

The ATK-PV line of leakage current protection devices is designed for modern photovoltaic power generation systems and provides reliable **protection in DC bus systems with a working voltage of 550 V**. The device effectively protects against direct lightning current, impulse surges or sudden voltage peaks that could threaten the stability of operation, thus significantly extending the life of photovoltaic panels, inverters and other system components and at the same time reduces the risk of unexpected failures.

TECHNICAL PARAMETERS OF OVERVOLTAGE PROTECTION

Parameter	Value
Rated discharge capacity (8/20 μs)	20
Max. discharge capacity I _{max} (8/20 μs)	40
Protection level Up (kV)	1,8
Response time (ns)	25
Rated working voltage Un (VDC)	550
Continuous operating voltage Uc (VDC)	550
Leakage current (μA)	≤20
Working temperature	-40 °C ~ +85 °C

