



## SURGE PROTECTION MODULES FOR LED-LIGHTING



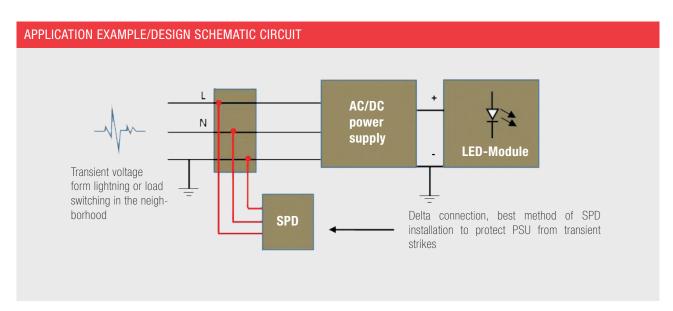
The new overvoltage protection modules of **PBSP series** of the manufacturer ProTek Devices are protection module, which are designed to protect against lightning surge currents up to 10000 ampere (PBSP-XXX-10K series) or up to 20000 ampere (PBSP-XXX-20K series).

The under UL1449 type 4 recognized modules meet the ANSI

Standard C136.2 / IEEE C62.41.2 Location Category C High Exposure and are IEC61643-11 Class II / EN61643-11 type 2 compliant. In addition to the compact form factor with mounting tabs, the modules are waterproof and dustproof according IP66. The operating temperature is in a range of -40°C to +85°C.

Pulse rating @ 8/20 µs:

PBSP-10K series:	PBSP-20K series:		
1×10000 A	1×20000A		
2×6500A	2×13000A		
10×3000A	10×6000A		
1000×1500A	1000×3000A		



## **ELECTRICAL CHARACTERISTICS PER LINE**

PART NUMBER	RATIED STAND OFF VOLTAGE V <sub>VM</sub> IV RE	ENERGY IJI @ 2ms	MAX. PEAK PULSE CURRENT OUR [A] @ 8/2048	MAX. CLAMPING WOLTAGE IVI VOLTAGE IVI Ø 8/2045,  = 100A	TYP. CAPACITANCE TYP. CAPACITANCE OF OV. 1MHZ
PBSP-120-10K	120	275	10000	660	1500
PBSP-220-10K	220	440	10000	1350	750
PBSP-240-10K	240	460	10000	1355	740
PBSP-277-10K	277	500	10000	1400	720
PBSP-380-10K	380	565	10000	1680	600
PBSP-120-20K	120	550	20000	650	3000
PBSP-220-20K	220	880	20000	1350	1500
PBSP-240-20K	240	920	20000	1355	1480
PBSP-277-20K	277	1100	20000	1500	1400

