

NRG SP100

SURGE PROTECTION DEVICE

The NRG Systems SP100 is a surge protection device purpose-built to safeguard critical equipment in utility-scale solar projects, where the risk of electrostatic discharge events –such as lightning – is heightened. It is especially effective for protecting array-mounted sensors located away from the central meteorological station.

Each SP100 system includes two devices designed to shield both array-mounted sensors and data loggers from surge events. For best results, the SP100 should be deployed alongside proper system isolation, grounding, and cabling according to system requirements.

Key Benefits

- Protects critical assets by diverting damaging surges away from loggers and sensors, reducing costly downtime and replacements
- Optimized for array-mounted sensors installed at a distance from the met station, where surge exposure is highest
- Proven field resilience that withstands up to 4kV line-to-ground and 2kV line-to-line surges
- DIN-rail and array-mount options enable fast setup and field replacement to minimize project interruptions





SPECIFICATIONS:		
Rated Operating Voltage	12-24VDC	
Rated Maximum Voltage V+, V-	28VDC	
Rated Maximum Voltage D+, D-	+12V/-7VDC	
Maximum Current	1A	
Surge Immunity	EN 6100-4-5+A1 2017	
Maximum Line-to-ground Surge	4kV	
Maximum Line-to-line Surge	2kV	
Number of Protected Instruments	1-4	
Environmental Conditions	Rated Operating Temperature Range • -40C to 60C	Ingress Protection Code • Array SP100: 65 • LOGR SP100: N/A

** Exceeding Absolute Maximum Ratings, even at short durations risks permanently damaging the product and may expose the operator to bodily harm*

*** Product may operate with reduced ratings at higher altitudes. Contact NRG Systems for more information.*

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ISO 9001: 2015 Certified

