Rapid Shutdown Solution - Data-sheet PVG-2, PVG-3

NORTHERN ELECTRIC

Intertek
4005622

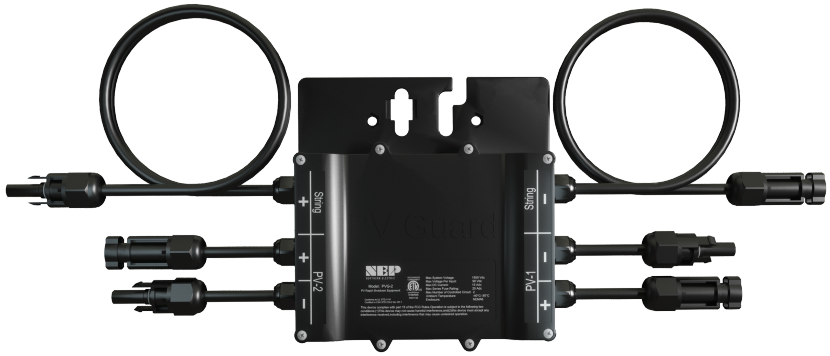
CE

TÜV SÜD

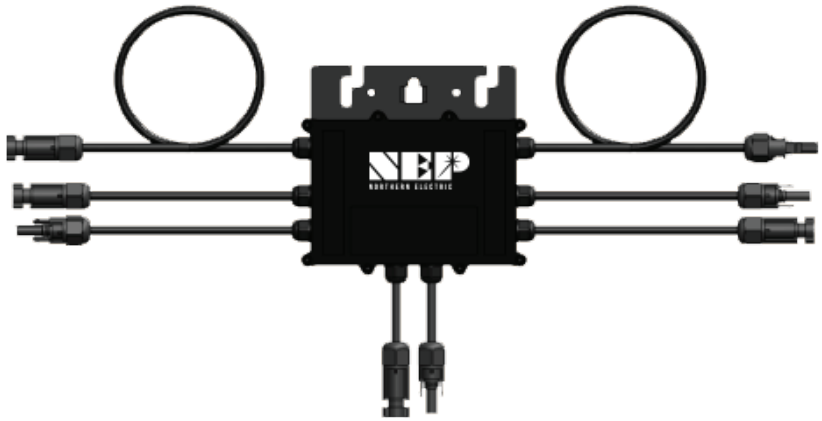
Features:

- Module level rapid shutdown: dual (2) and triple (3) modules
- Module level monitoring for commissioning, service diagnostics
- 1-minute PV data granularity for precise performance assessment
- Cellular, Wifi and Ethernet connectivity options
- Over temperature protection (auto-RSD function)
- PVRSS certified with multiple inverters and as independent system
- Zero cross talk interference through patented signaling design
- Optional customized cable/connector harness
- Staubli MC4 standard connectors
- IV Curve Trace Test mode for efficient commissioning
- String voltage test tool available
- Rail or module frame mount (optional PV mounting clip available)
- Multiple US patents

PVG-2



PVG-3



Easier and Lower Cost

Rapid Shutdown Beyond NEC Code for Safety, Service and Site Performance

Rapid Shutdown Solution

PV-Guard, Panel Level Devices	PVG-2	PVG-3
Input/Output		
Input: Max DC Open Circuit Voltage per Input	90Vdc	
Input: Max DC Current per Input	15/20 A	
Output: Max Output Voltage	Voc(module)*2	Voc(module)*3
System Voltage Maximum	1500Vdc	
Mechanical		
PV Cable	12 AWG	
PV Connectors	MC4 Staubli (Custom configurations available)	
Size (PVG body)	5.9' x 5.7' x 1.0' (inches)	
Protection Degree	NEMA 6	
Operating Ambient Temperature	-40C - +85C	
Mounting Method	Rail via supplier MLPE hardware, PV Frame with optional NEP mounting clip	
Certifications	PVRSS Intertek, UL1741, CSA C22.2 No. 107.1, NEC 2017,2020 690.12, Canada CE 2015 64-218	
RSD Data Signal	Two-way, PLC Communications between PVG's and Transmitter	

Gateway Data Communications		
PVG-O	Enclosure with BDG-256 Gateway, PVG-C Transmitter	Used for full PV and PVG data access
PVG-M	Enclosure with BDG-256 Gateway, no Transmitter	Used for data and when transmitter resides in the inverter
Data Period	5 years data, website and smart phone application support included	
Internet Connectivity; 3 methods for connecting the NEP Gateway to the Internet		
a. Ethernet	Standard hard-wire connection to the NEP BDG-256 Gateway	
b. Wifi	Standard Wifi connection to the NEP BDG-256 Gateway	
c. Cellular	Optional cellular modem with USA sim card, includes 5 year data plan	
Power Supply	Power input 100-277Vac, 200mA, 50/60Hz	Power needed for Gateway and Transmitter
Transformer	Optional; for 480Vac to 277Vac	Used if only 480Vac is available, no neutral configuration
Enclosure Size	15.79' x 11.8' x 6.7'	
Protection	IP65	
Certifications	PVRSS, Intertek UL1741	

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