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

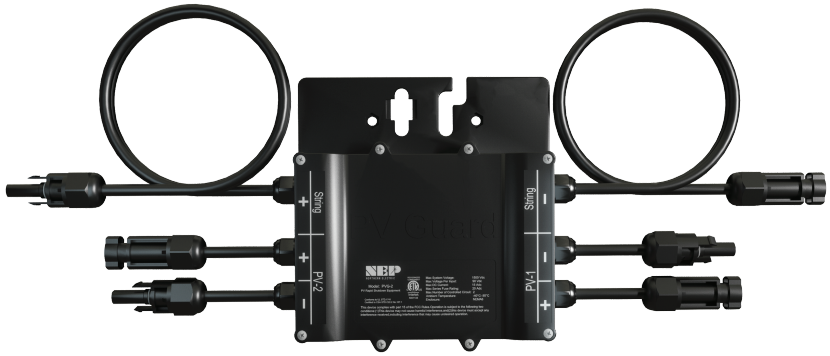
NORTHERN ELECTRIC

Intertek
4005622

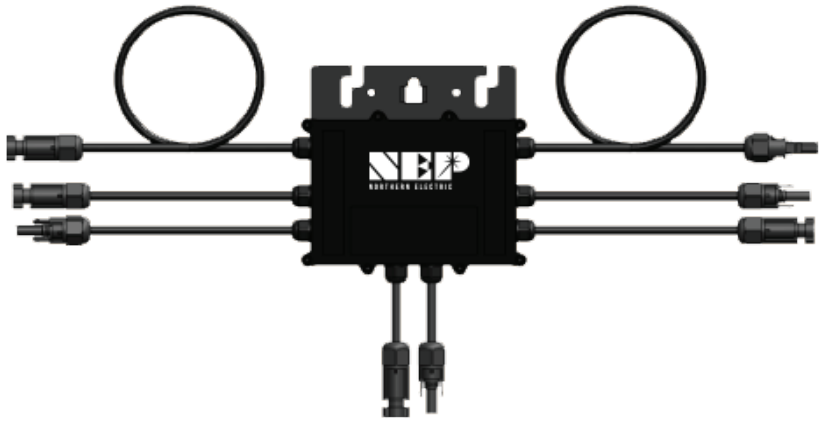
Features:

- 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-L



PVG-3-L



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 -L		PVG-3-L
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	1.2m PV(2), 2.2m Homeruns (2)	12 AWG	0.2m PV, 2.2m PV(2), 3.5m Homeruns (2)
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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