

# PV-Guard Module-Level Rapid Shutdown and Monitoring

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## PV - GUARD



### Features

- Module level rapid shutdown
- Module level monitoring for service (option)
- IV curve trace operating mode
- Over temperature protection (auto RSD function)
- Optional enclosure for controller and data logger
- Certified for PVRSS with multiple inverters and for stand-alone independent RSD system



Auto shut-down whole PV site BEFORE fire or smoke



Compatible with SunSpec control signaling



Cable harness options to comply with NEC2020



Suitable for all commercial or residential applications



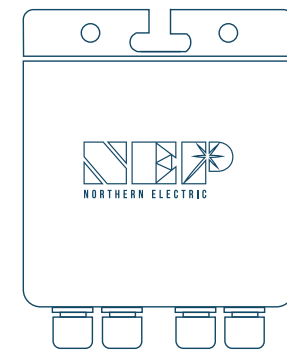
Multiple US patents pending



4.75'

6.60'

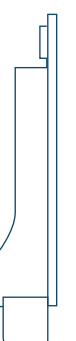
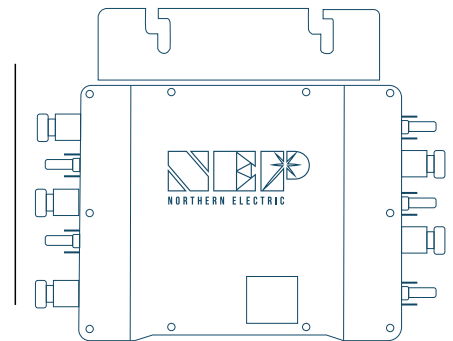
1.20'



8.25'

10.5'

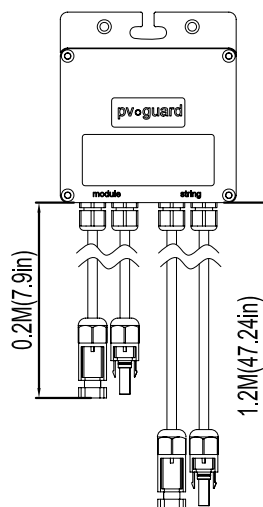
1.25'



# PVG Receivers

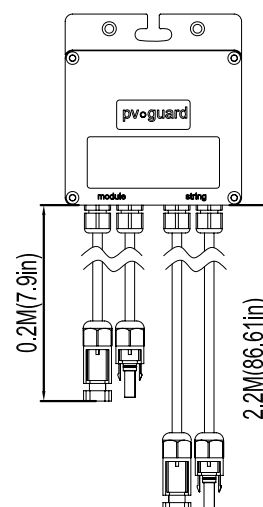
## PVG 1

### PVG-1-P



P=Portrait orientation

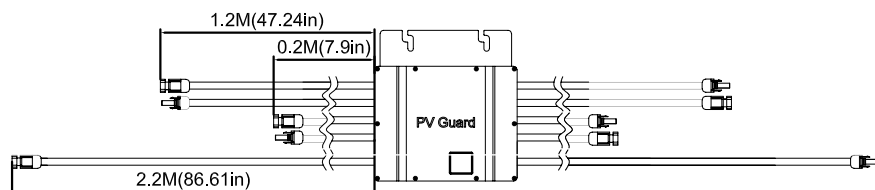
### PVG-1-L



Single PV module  
L=Landscape orientation

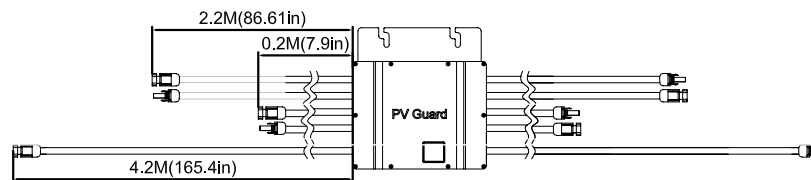
## PVG 4

### PVG-4-P



Four PV modules  
P=Portrait orientation

### PVG-4-L



Four PV modules  
L=Landscape orientation

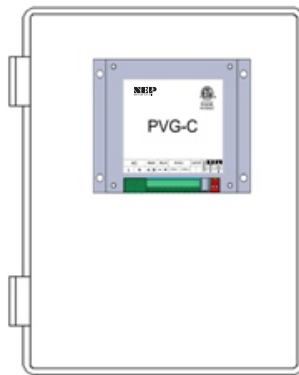
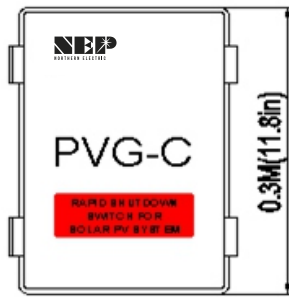
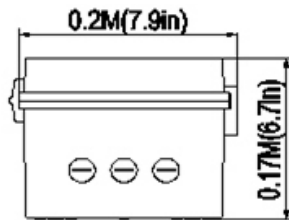
PANEL LEVEL  
RECEIVER  
DEVICES  
PVG-1  
PVG-4

INPUT(DC)	Max DC Open Circuit Voltage per Input (Vdc)	90
	Max DC Current per input (Adc)	15
OUTPUT(DC)	Maximum Output Voltage (Vdc)	Voc * n (n=1/2/3/4)
SYSTEM	Maximum System Voltage (Vdc)	1500
MECHANICS	PV Cable	12AWG
	PV Connectors	MC4, MC4 compatible, Amphenol
	Size (not including PV cable)	6.60' x 4.75' x 1.20' (PVG-1)      10.5' x 8.25' x 1.25' (PVG-4)
	Protection Degree	NEMA 6
	Operating Ambient Temperature	-40°C--+85°C
SIGNAL	Communications	DC Power Line Compatible with SunSpec signaling
CERTIFICATION	Product Safety Compliance	UL 1741 CSA C22.2 No. 107.1 NEC 2014/2017 690.12 Canada CEC 2015 64-218

# PVG Controller Outdoor Enclosure

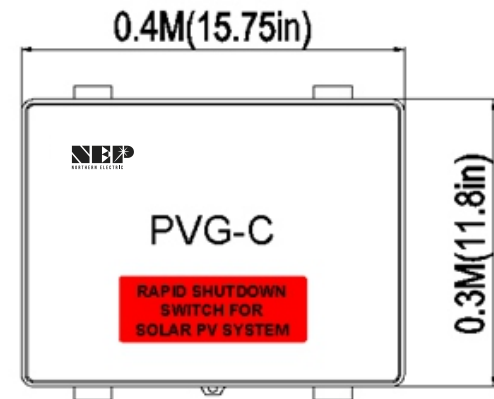
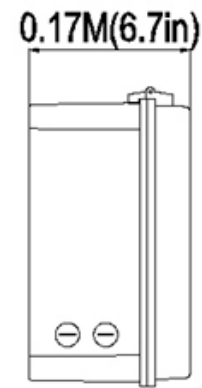
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## PVG-E (Outdoor Enclosure – 1)



Size: 200 x 300 x 170 (mm)  
7.9 x 11.8 x 6.7 (in)

## PVG-O (Outdoor Enclosure – 2)



Size: 400 x 300 x 170 (mm)  
15.79 x 11.8 x 6.7 (in)

## PVG-E

<b>POWER SUPPLY</b>	AC Input	100 - 277 Vac. 200mA, 50/60 Hz
<b>SYSTEM</b>	Maximum System Voltage (Vdc)	1500
<b>MECHANICS</b>	Size	7.9'x11.8'x6.7'
	Protection Degree	IP65
	Operating Ambient Temperature	-20C----- +85C
<b>SIGNAL</b>	Communications	DC Power Line, Compatible with SunSpec
<b>CERTIFICATION</b>	Product Safety Compliance	UL 1741 CSA C22.2 No. 107.1 NEC 2014/2017 690.12 Canada CEC 2015 64-218
<b>CONTROLS</b>	Optional Controls	On-Grid / Off-Grid Primary / Secondary 5Vdc output for relay
<b>RESIDENTIAL</b>	Alternative RSD control	Built-in E-Stop button

## PVG-O (PANEL LEVEL MONITORING)

<b>POWER SUPPLY</b>	AC Input	100 - 480 Vac. 200mA, 50/60 Hz
<b>SYSTEM</b>	Maximum System Voltage (Vdc)	1500
<b>MECHANICS</b>	Size	15.79'x11.8'x6.7'
	Protection Degree	IP65
	Operating Ambient Temperature	-20C----- +85C
<b>SIGNAL</b>	Communications	DC Power Line, Compatible with SunSpec
<b>CERTIFICATION</b>	Product Safety Compliance	UL 1741 CSA C22.2 No. 107.1 NEC 2014/2017 690.12 Canada CEC 2015 64-218
<b>MONITORING</b>	Optional Monitoring	Panel-by-Panel with BDG-256
<b>RESIDENTIAL</b>	Alternative RSD control	Built -in E-Stop button