



日場科技有限公司
JD Auspice Co., Ltd.

Catalog of pidGuard® Products

JDA improve your energy yield



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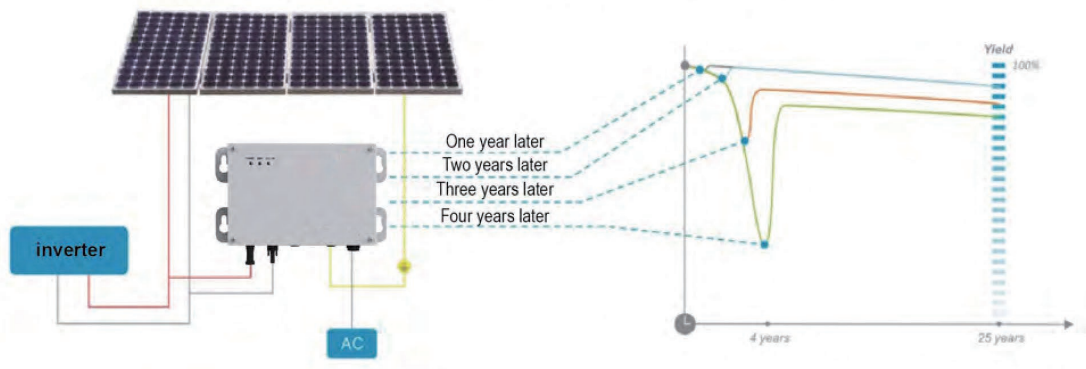
Leader in photovoltaic pidGuard® solution

PID is one midlife-failure during PV plant operation. The degradation issue will be more and more serious if no solution.

pidGuard® series products developed by JDA could be installed at DC side of the solar plant to recover and prevent PID issue.



The earlier installation, the less degradation.



Certificate

EN/IEC 61000
EN/IEC 62109
AS/AZS 61000



Warranty

2-years standard warranty
Optional extended warranty
Product insurance



Contents

Leader in pidGuard® solution



Super capacity inverter solution (pidGuard®03)
Suitable for inverters with capacity more than 375 KW
The device is designed for the inverter larger than 375KW.
The solar module quantity is recommended more than 1500 pcs. For the inverter more than 630KW, pidGuard®03 could be applied in parallel connection.
P05-P12

Large capacity inverter solution (pidGuard®04)
Suitable for 200KW-375KW inverters
The device is designed for inverter within 200KW-375KW.
The solar module quantity is recommended between 800-1500pcs.
P13-P16





Medium capacity inverter solution (**PV stepUp®**)
Suitable for 50KW-200KW inverters
The device is designed for inverter within 50KW-200KW. The solar module quantity is recommended between 200-800pcs.
P17-P20

Small capacity inverter solution (**Mini pidGuard®**)
Suitable for inverters with capacity below 50KW
The device is designed for inverter below 50KW. The solar module quantity is recommended less than 200pcs.
P21-P23



Accessories of **pidGuard®** series products
Fuse connector (B-Fuse), MPPT extension box (Extender-T), inverter extension box (Extender-I) could be optioned to apply
P24-P26





Super capacity inverter solution (pidGuard®03)

The device is designed for the inverter larger than 375KW. The solar module quantity is recommended more than 1500 pcs. For the inverter more than 630KW, pidGuard®03 could be applied in parallel connection.



Feature

- ◆ Operation parameters could be set by panel button.
No need to open the cover.
- ◆ The screen displays the operation parameters, time, insulation resistance etc.
- ◆ Parallel connection application is optional.
- ◆ Night mode or day mode is optional.
- ◆ On/off signal (dry node).
- ◆ RS485 communication is optional.

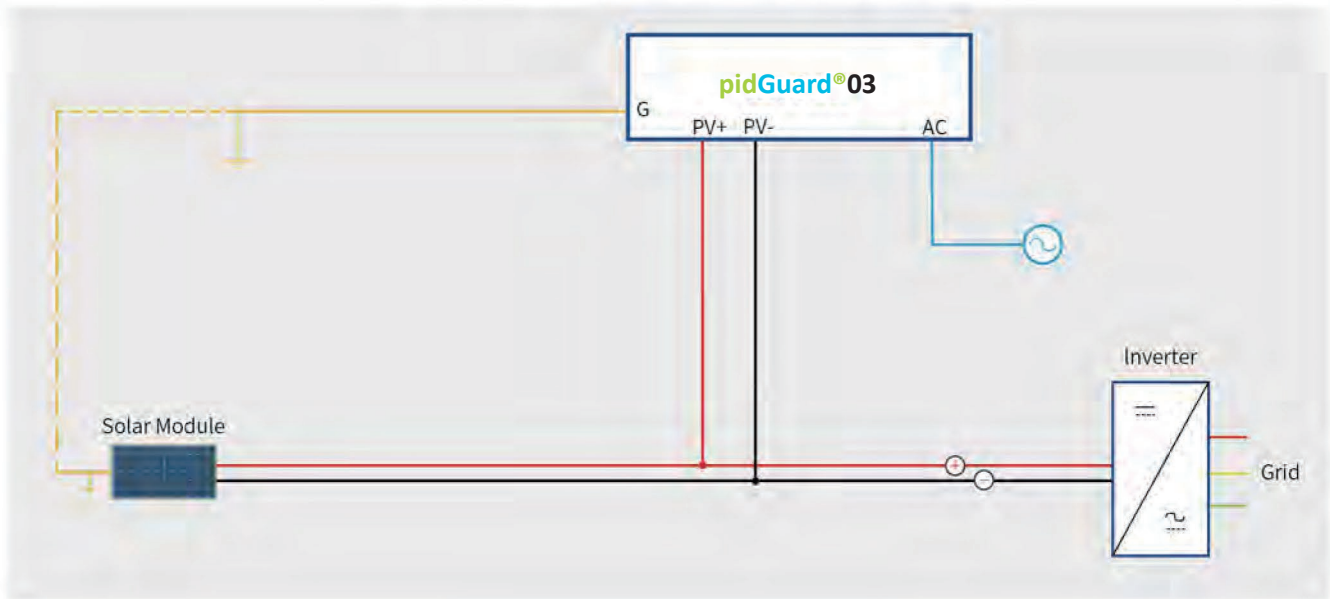


Parameter of pidGuard®03

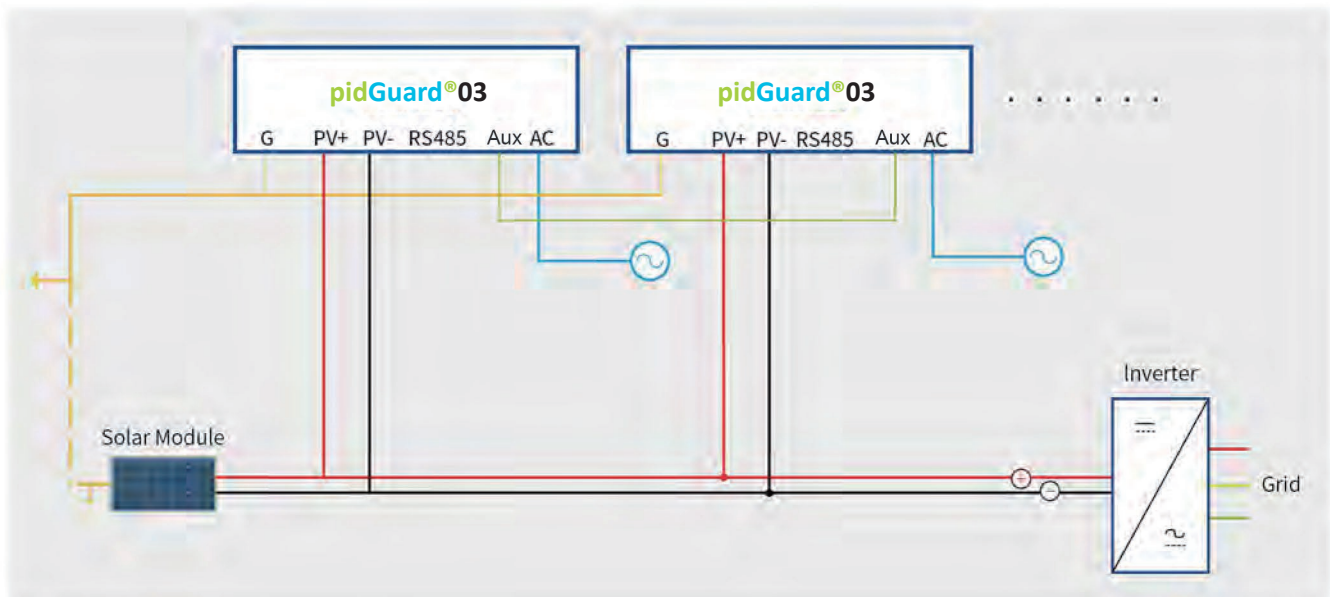
| Model | | pidGuard®03-L | pidGuard®03-M |
|-----------------------------|--------------------------------------|---|---------------|
| Connection and Output | Qty. of inverter | 1 | |
| | Maximum voltage (V@-45°C) | 1000 | 1500 |
| | Inverter capacity(KW) | ≥375 | |
| | Reference Qty. of solar modules(pcs) | ≥1500 | |
| | Reference Riso of PV system(KΩ) | ≥10@600V(Parallel application when≤ 10@600V) | |
| | Output voltage (VDC) | 400/500/600/700/800/900/1000 | |
| | Maximum output current(mA) | 60 | |
| | Maximum output power (W) | 36 | |
| Display and Setting | Status indication | On/Off/Standby/Faulty | |
| | Display | Output voltage/PV voltage/Riso value/Faulty reason | |
| | Panel button | Output voltage/Start voltage/ Start time | |
| Communication mode | Digital Communication | RS485(Optional) | |
| | On/off communication | Aux interface | |
| Aux interface (Dry contact) | Max Current(A) | 0.5 | |
| | Max Voltage | 28VDC/260VAC/1000VDC(0.05A) | |
| | Contact open | 1s before unit on | |
| | Contact close | 1s afterunit off | |
| General Data | Dimension(mm) | 360*260*105 | |
| | Weight(kg) | 6 | |
| | IP class | IP65 | |
| | Temperature(°C) | -25~50 | |
| | Humidity(%RH) | ≤95 | |
| | Altitude(m) | ≤4000 | |
| | Protect | Overvoltage /Over current / Under voltage/ Low insulation resistance/ Reverse connection / Virtual connection | |
| Input | Voltage(V) | 100~240 | |
| | Frequency(Hz) | 50/60 | |
| | Standby Power(W) | ≤2 | |

Application Reference

Reference connection of pidGuard®03

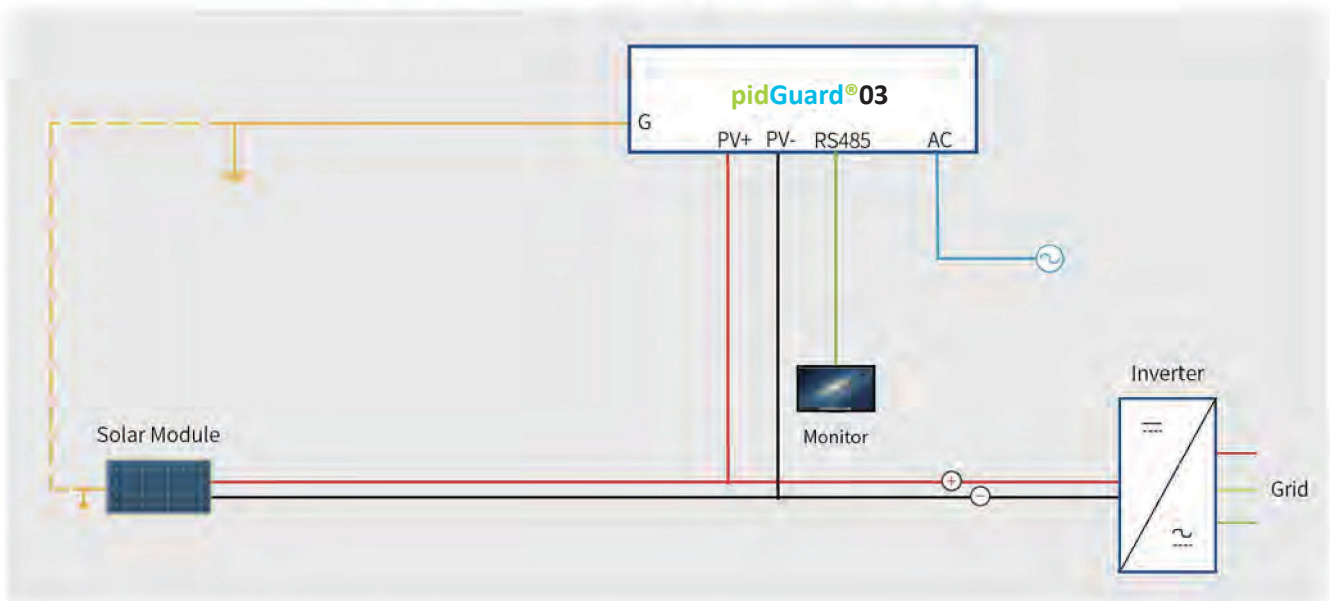


Reference connection of in parallel

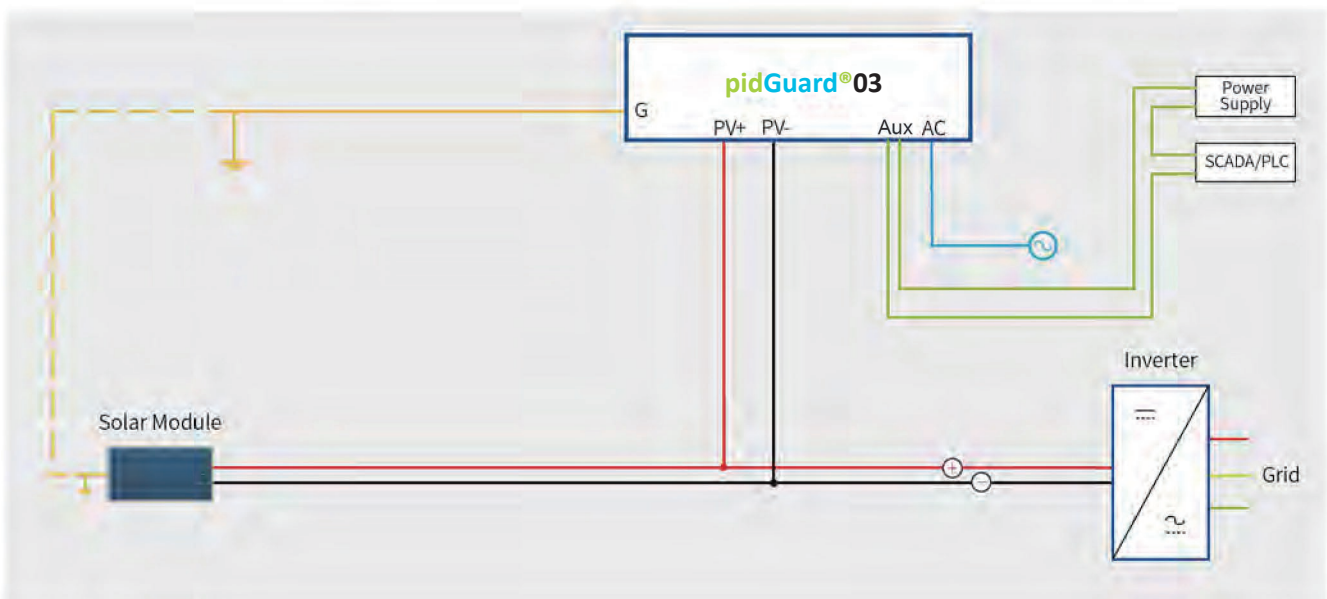


Application Reference

Application of RS485 communication

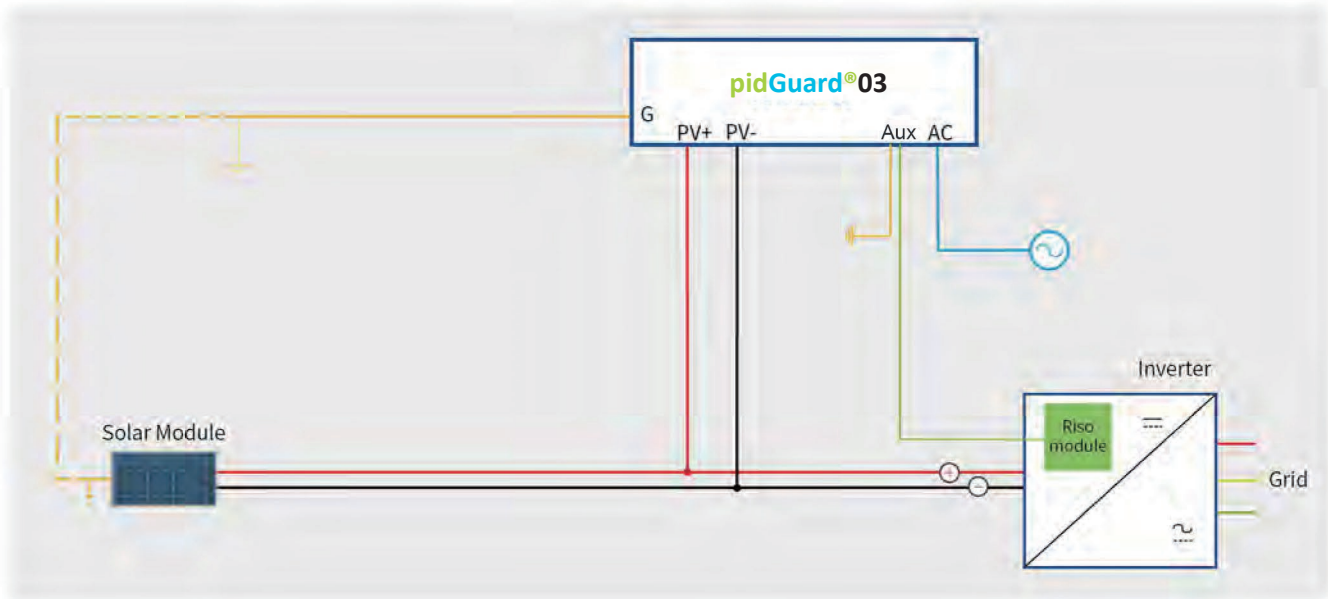


Application of Aux interface as communication

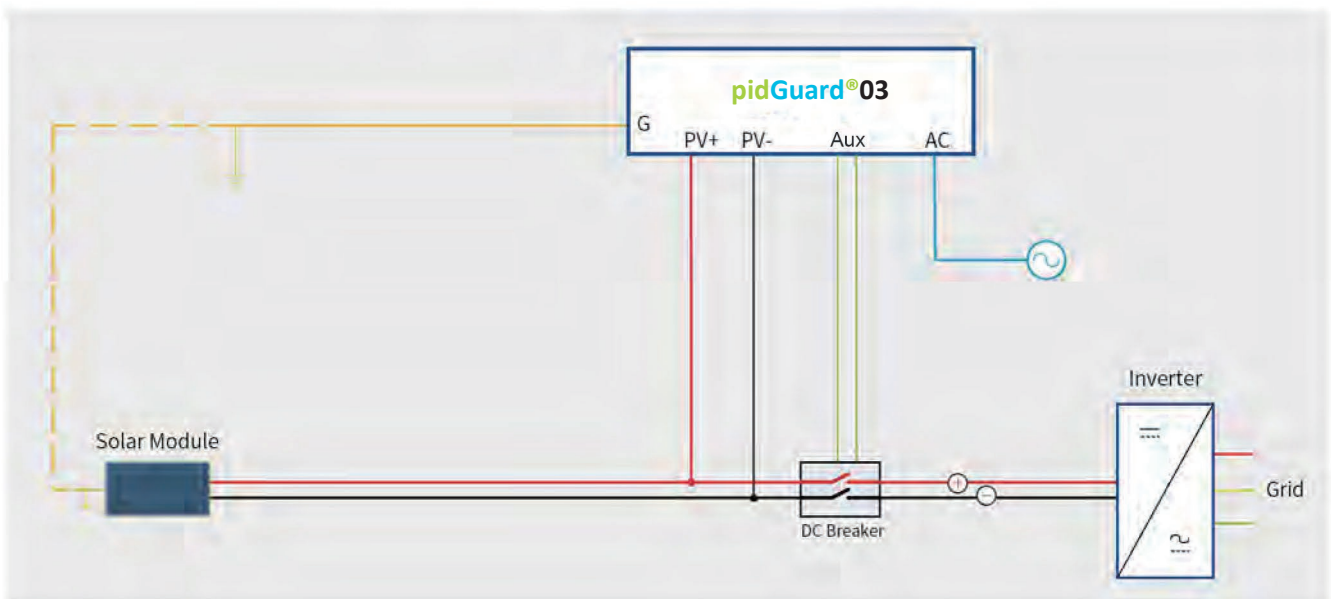


Application Reference

Application of Aux interface with Riso inspecting module

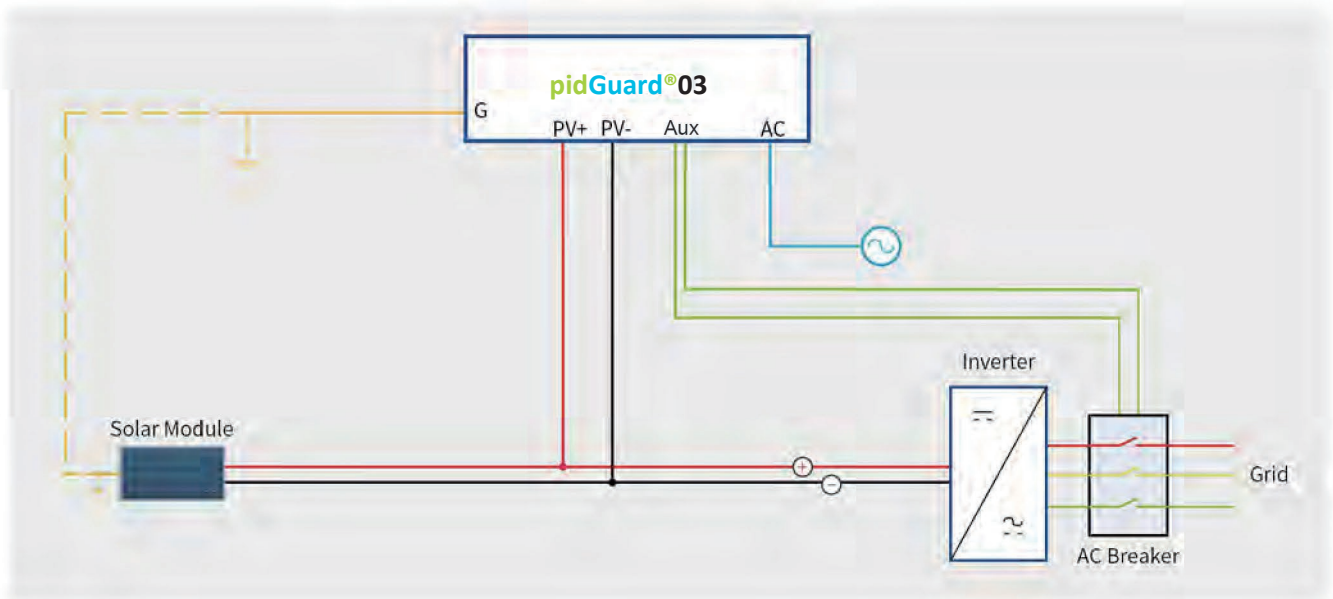


Application of Aux interface as communication

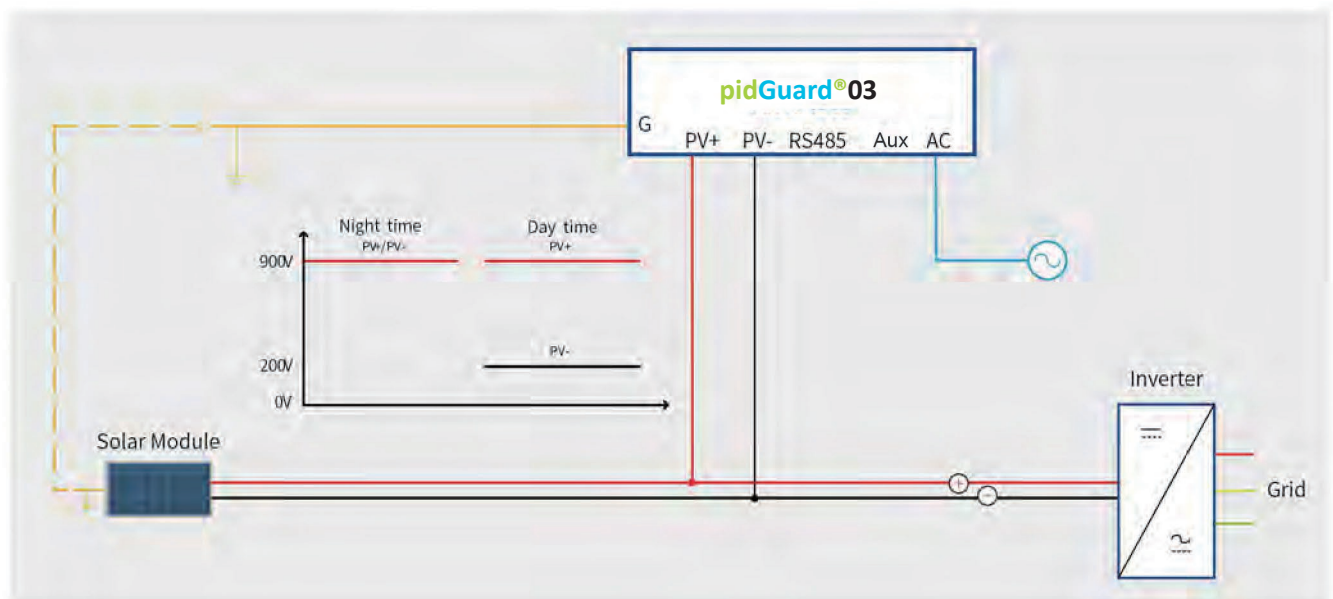


Application Reference

Application of Aux interface with AC breaker



Application of Day time operation



Installation Reference





Installation Reference



Large capacity inverter solution (pidGuard®04)

The device is designed for inverter within 200KW-375KW. The solar module quantity is recommended between 800-1500pcs.



Feature

- ◆ Operation parameters could be set by panel button.
- ◆ The indicator show the set parameters and operation status.
- ◆ Start voltage could be set.
- ◆ On/off signal (dry node).
- ◆ RS485 communication optional.

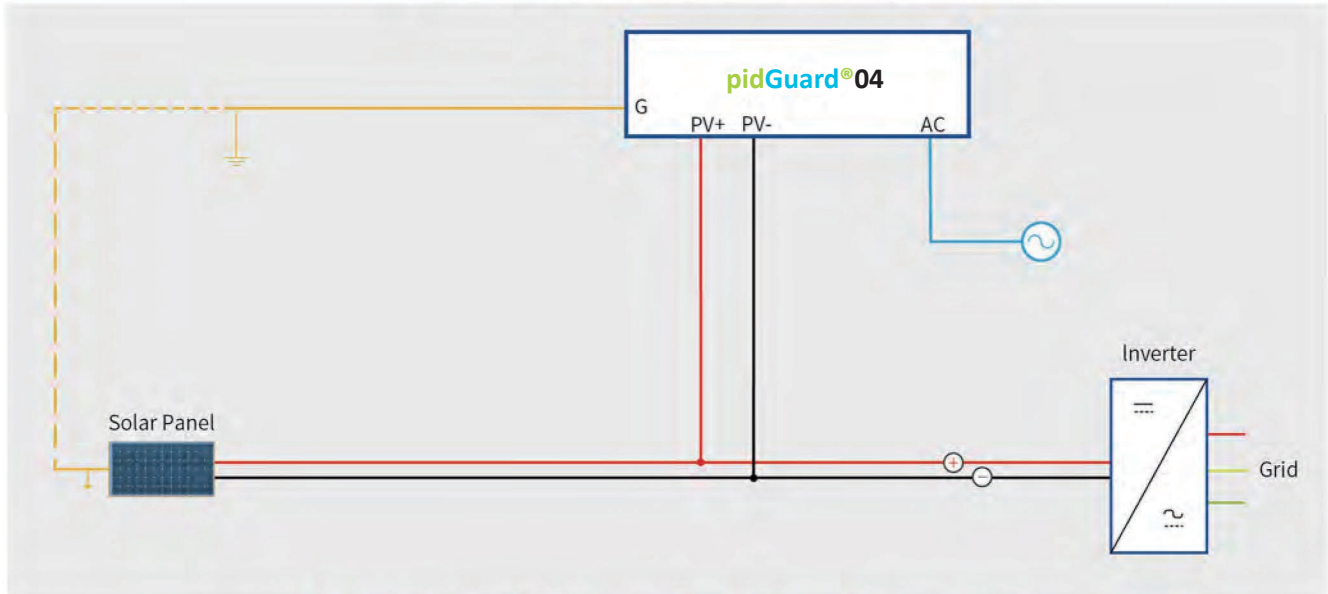


Parameter of pidGuard®04

| Model | pidGuard®04-L | pidGuard®04-M | |
|-----------------------------|---------------------------------|---|------|
| Connection and Output | Qty. of inverter | 1 | |
| | Maximum voltage (V@-45°C) | 1000 | 1500 |
| | Inverter capacity(KW) | 200~375 | |
| | Reference Riso of PV system(KΩ) | ≥20@600V | |
| | Output voltage (VDC) | 400/500/600/700/800/900/1000 | |
| | Maximum output current(mA) | 30 | |
| | Maximum output power (W) | 30 | |
| Display and Setting | Status indication | On/Off/Output voltage/Running time/Faulty | |
| | Panel button | Output voltage/ Running time(Threshold voltage) | |
| Communication mode | Digital Communication | RS485(Optional) | |
| | On/off communication | Aux interface | |
| Aux interface (Dry contact) | Max Current(A) | 0.5 | |
| | Max Voltage | 28VDC/260VAC/1000VDC(0.05A) | |
| | Contact open | 1s before unit on | |
| | Contact close | 1s afterunit off | |
| General Data | Dimension(mm) | 360*260*105 | |
| | Weight(kg) | 6 | |
| | IP class | IP65 | |
| | Temperature(°C) | -25~50 | |
| | Humidity(%RH) | ≤95 | |
| | Altitude(m) | ≤4000 | |
| | Protect | Overvoltage /Over current / Under voltage/ Low insulation resistance/ Reverse connection / Virtual connection | |
| Input | Voltage(V) | 100~240 | |
| | Frequency(Hz) | 50/60 | |
| | Standby Power(W) | ≤1.7 | |

Application Reference

Reference connection of pidGuard®04



▲ Refer to pidGuard®04 for RS485 an Aux interface application.

Installation Reference



Installation Reference



Medium capacity inverter solution (PV stepUp®)

The device is designed for inverter within 50KW-200KW. The solar module quantity is recommended between 200-800pcs.



Feature

- ◆ Self-learning control software, no need to set on site.
- ◆ Working status indication.
- ◆ On/off signal (dry contact) is optional.
- ◆ RS485 communication optional.
- ◆ Minus output voltage application optional.

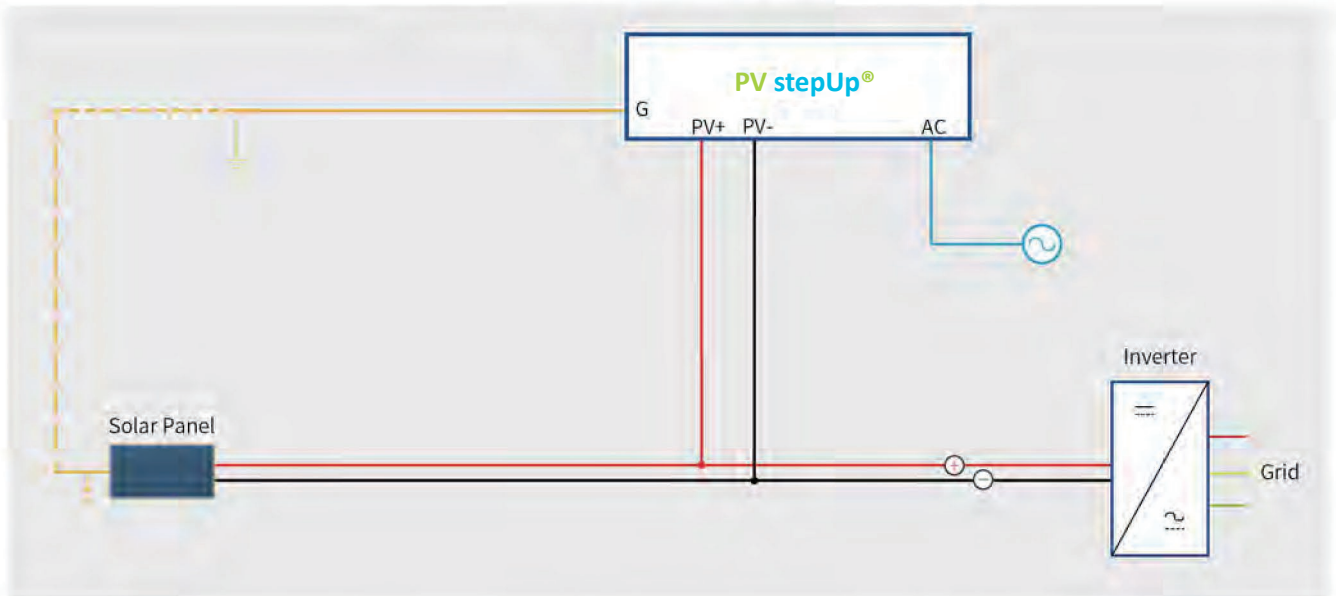


Parameter of PV stepUp®

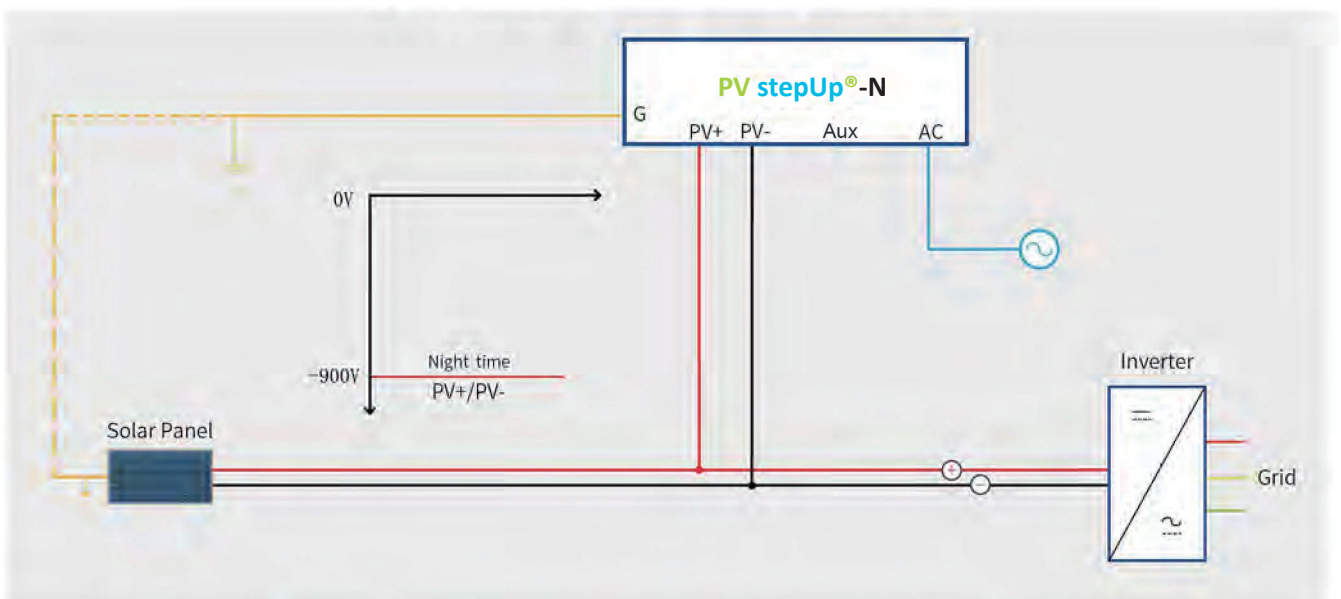
| Model | | PV stepUp®-L | PV stepUp®-M | PV stepUp®-N |
|--------------------------|---------------------------------|---|--------------|--------------|
| Connection and Output | Qty. of inverter | 1 | | |
| | Maximum voltage (V@-45°C) | 1000 | 1500 | 1500 |
| | Inverter capacity(KW) | 50~200 | | |
| | Reference Riso of PV system(KΩ) | ≥30@600V | | |
| | Output voltage (VDC) | 600~1000 | | -600~-1000 |
| | Maximum output current(mA) | 20 | | |
| | Maximum output power (W) | 20 | | |
| Display and Setting | Status indication | Power, On/Off, fault, Preparation before startup. | | |
| | Setting | Self setting operation time and self setting output voltage | | |
| Communication mode (COM) | Digital Communication | RS485(Optional) | | |
| | On/off communication | Aux interface (Optional) | | |
| Aux interface | Max Current(A) | 0.5 | | |
| | Max Voltage | 28VDC/260VAC | | |
| | Contact open | 1s before unit on | | |
| | Contact close | 1s after unit off | | |
| General Data | Dimension(mm) | 320*180*80 | | |
| | Weight(kg) | 4 | | |
| | IP class | IP65 | | |
| | Temperature(°C) | -25~65 | | |
| | Humidity(%RH) | ≤95 | | |
| | Altitude(m) | ≤4000 | | |
| | Protect | Overvoltage /Over current / Under voltage/ Low insulation resistance/ Reverse connection / Virtual connection | | |
| Input | Voltage(V) | 100~240 | | |
| | Frequency(Hz) | 50/60 | | |
| | Standby Power(W) | ≤1.5 | | |

Application Reference

Reference connection of **PV stepUp®**



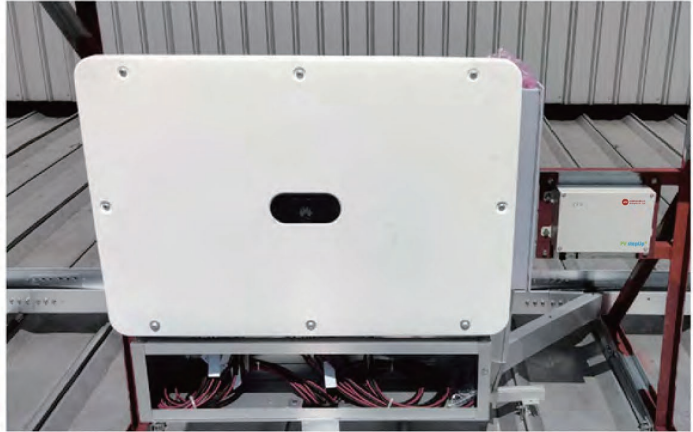
Application of minus voltage out output



▲ Refer to **pidGuard®03** for RS485 an Aux interface application.



Installation Reference



Small capacity inverter solution (Mini pidGuard®)

The device is designed for inverter below 50KW. The solar module quantity is recommended less than 200pcs.



Feature

- ◆ Self-learning control software, no need to set on site.
- ◆ Output voltage could be selected by switch.
- ◆ Working status indication.
- ◆ On/off discrete signal(dry contact).
- ◆ RS485 communication optional.

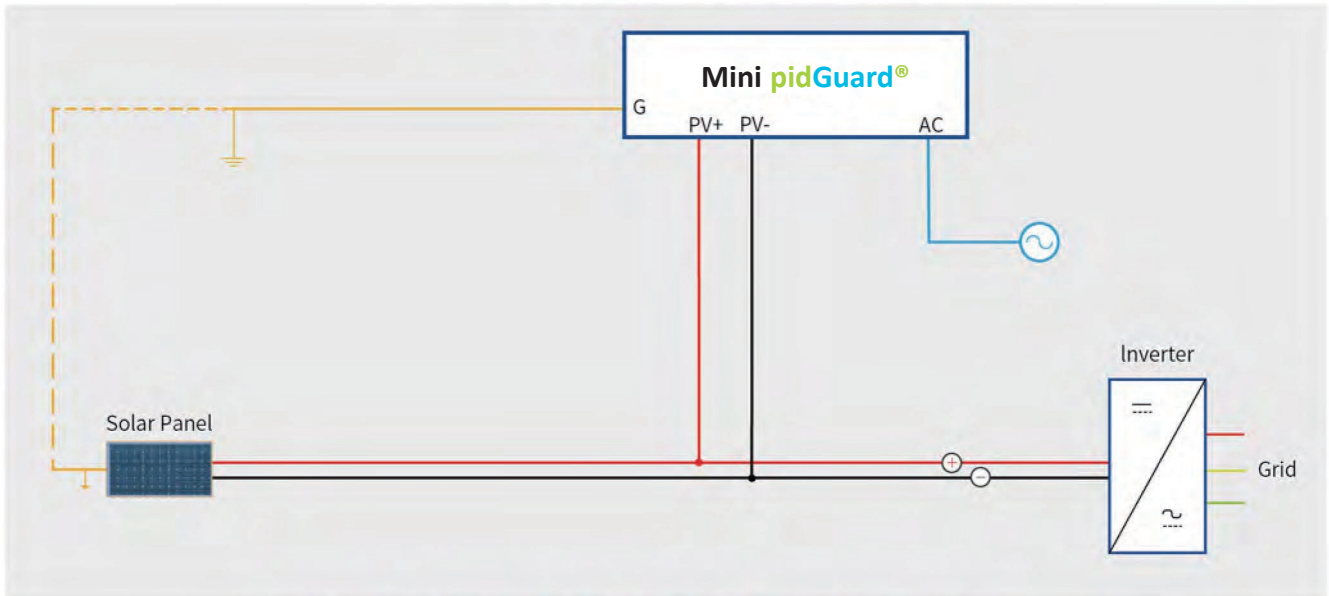


Parameter of Mini pidGuard®

| Model | Mini pidGuard® | |
|--------------------------|---------------------------------|---|
| Connection and Output | Qty. of inverter | 1 |
| | Maximum voltage (V@-45°C) | 1000 |
| | Inverter capacity(KW) | ≤50 |
| | Reference Riso of PV system(KΩ) | ≥60@600V |
| | Output voltage (VDC) | 500/800 |
| | Maximum output current(mA) | 10 |
| | Maximum output power (W) | 8 |
| Display and Setting | Status indication | On/Off/fault/Standby/ Preparation before start up |
| | Setting | Self setting operation timeand switch setting output voltage |
| Communication mode (COM) | Digital Communication | RS485(Optional) |
| | On/off communication | Aux interface (Optional) |
| Aux interface | Max Current(A) | 0.5 |
| | Max Voltage | 28VDC/260VAC |
| | Contact open | 1s before unit on |
| | Contact close | 1s afterunit off |
| General Data | Dimension(mm) | 205*146*50 |
| | Weight(kg) | 0.9 |
| | IP class | IP65 |
| | Temperature(°C) | -25~65 |
| | Humidity(%RH) | ≤95 |
| | Altitude(m) | ≤4000 |
| | Protect | Overvoltage /Over current / Under voltage/ Low insulation resistance/ Reverse connection / Virtual connection |
| Input | Voltage(V) | 100~240 |
| | Frequency(Hz) | 50/60 |
| | Standby Power(W) | ≤1.0 |

Application Reference

Reference connection of **Mini pidGuard®**



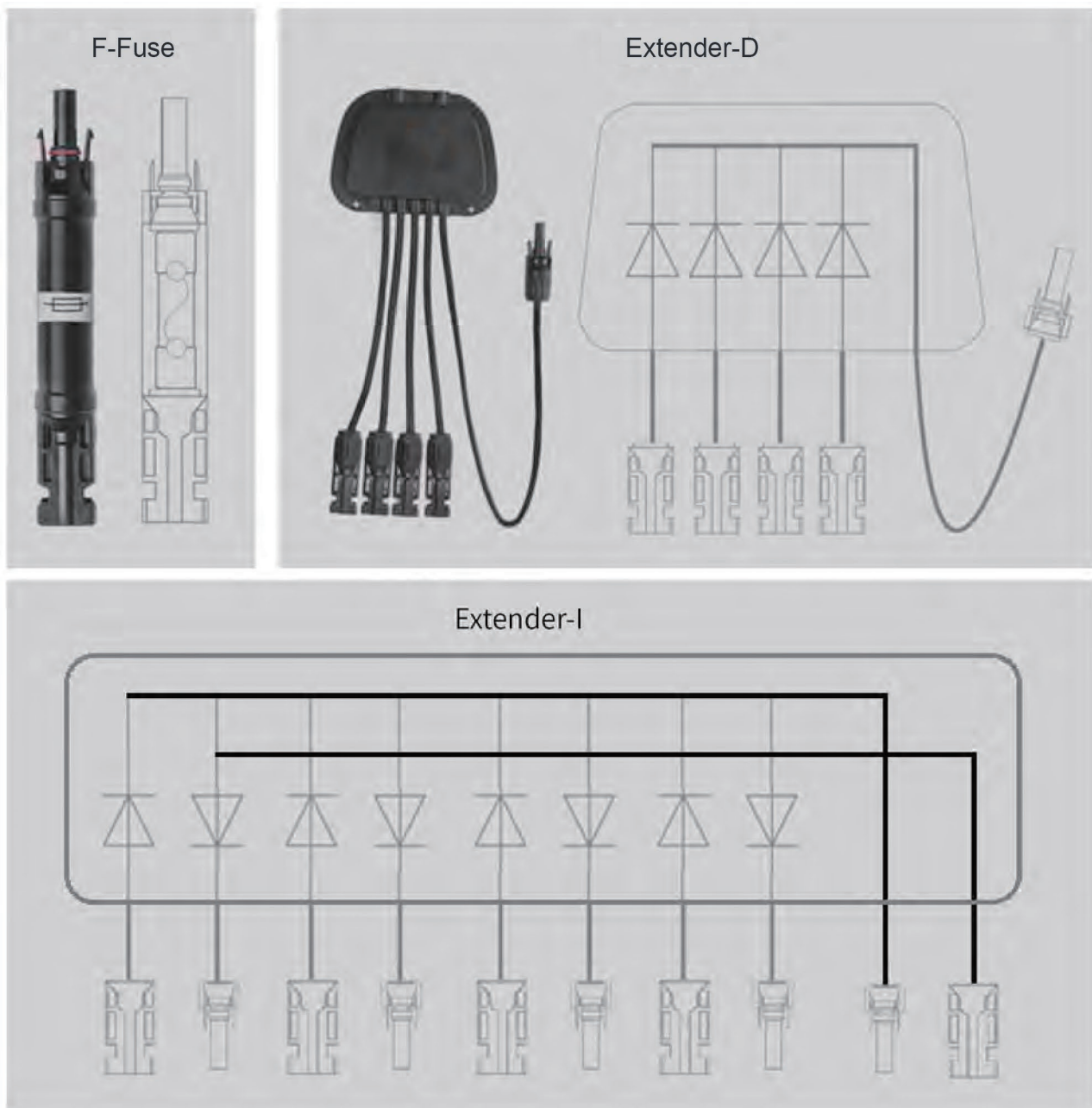
▲ Refer to **pidGuard®03** for RS485 an Aux interface application.

Installation Reference



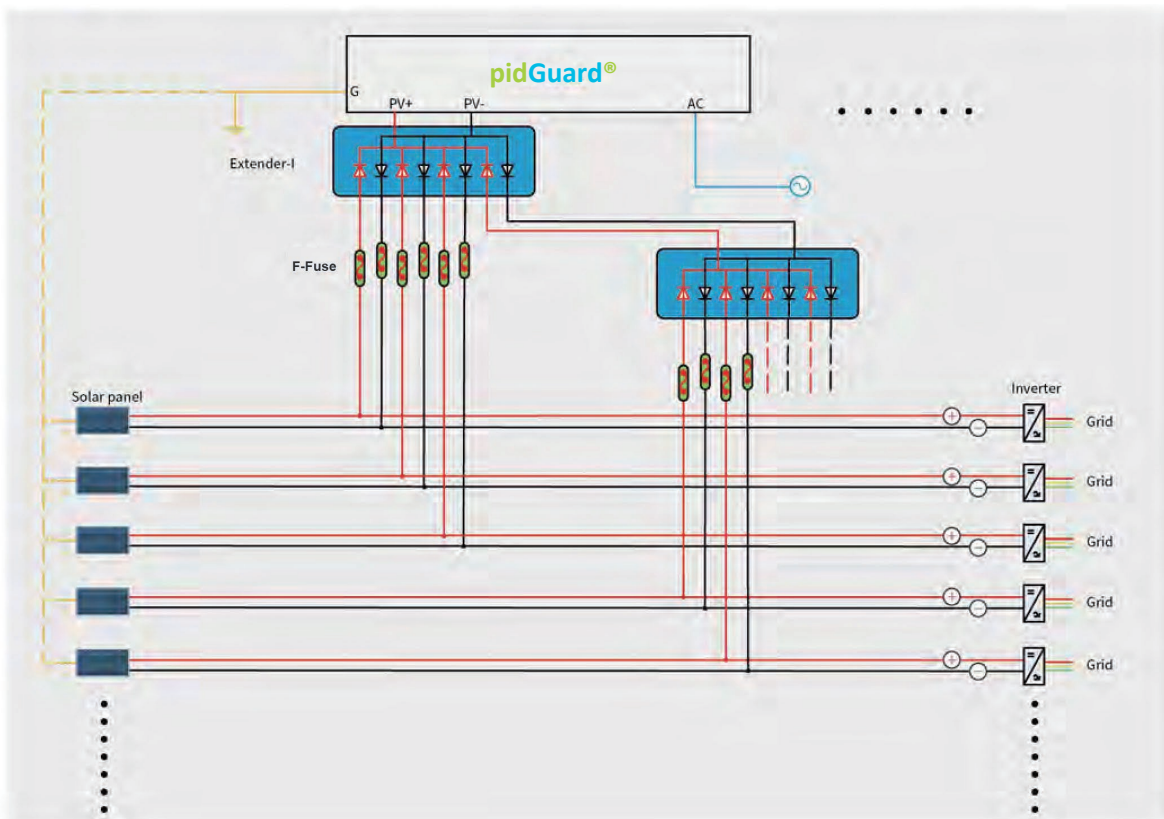
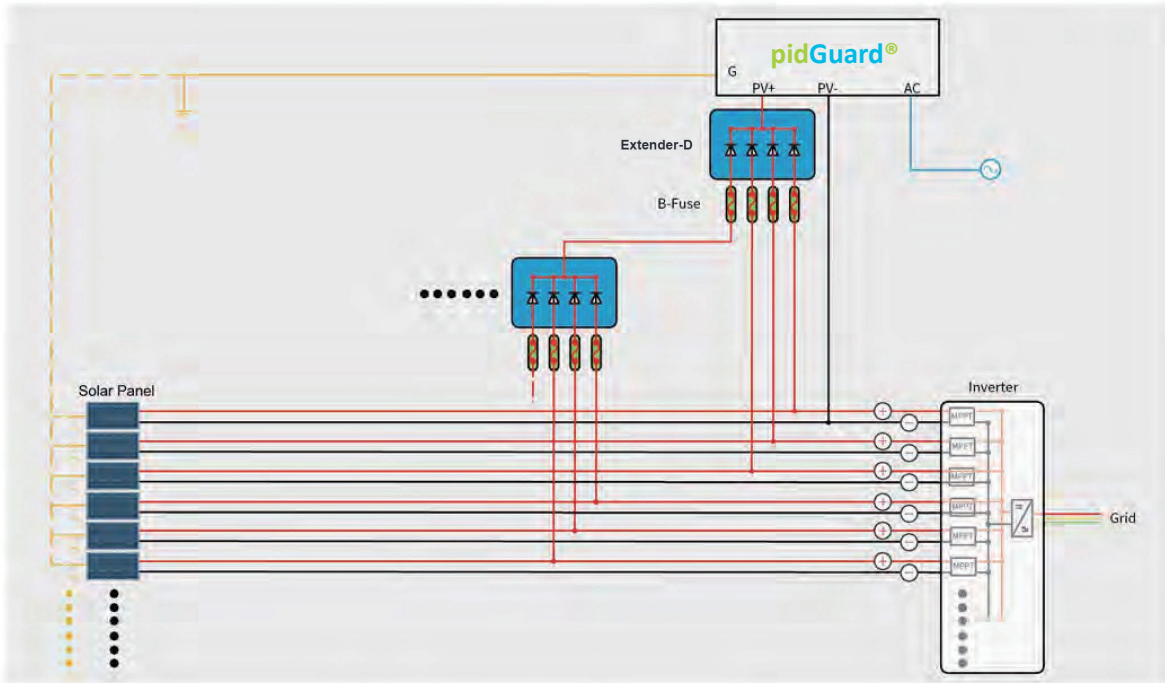
Accessories of pidGuard® series products

Fuse connector (F-Fuse), MPPT extension box (Extender-D), inverter extension box (Extender-I) could be optioned to apply with pidGuard® product.






| | | |
|----------------------------|---------------------------|---|
| F-Fuse | Function | Connected between different MPPT or different inverter. |
| | Fuse voltage(V) | 1500 |
| | Fuse current(A) | ≤1 |
| | Connector | MC4 compatible (Mate & Female) |
| | IP class | IP65 |
| | Installation | Avoid rain & Sun |
| | Operation temperature(°C) | -25~65 |
| | Operating Humidity(%RH) | ≤95 |
| Extender-D | Function | Extend quantity of MPPT |
| | Qty. of MPPT extension | 4 |
| | Diode reverse voltage(V) | 1500 |
| | Diode forward current(A) | ≤2 |
| | Input connector | MC4 compatible Female connector (4 pcs) |
| | Output connector | MC4 compatible Male connector (1 pcs) |
| | IP class | IP65 |
| | Fixing | On flat surface |
| | Installation | Avoid rain & Sun |
| | Operation temperature(°C) | -25~65 |
| | Operating Humidity(%RH) | ≤85 |
| | Extender-I | Function |
| Qty. of Inverter extension | | 4 |
| Diode reverse voltage(V) | | 1500 |
| Diode forward current(A) | | ≤2 |
| Input connector | | MC4 compatible Female connector (5 pcs) |
| Output connector | | MC4 compatible Male connector (5 pcs) |
| IP class | | IP65 |
| Fixing | | On flat surface |
| Installation | | Avoid rain & Sun |
| Operation temperature(°C) | | -25~65 |
| Operating Humidity(% R H) | | ≤95 |





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