

Resolve PID & achieve higher ROI

Omron & Ilumen's PID box series



When PV panels are exposed to a negative voltage to ground, Potential Induced Degradation (PID) can occur and reduce energy generation. In partnership with iLumen, we deliver a retrofit solution to eliminate PID directly in the field, with keeping PV modules in place.

Effectively protect your investment or increase your return with PID box series (Mini PID box, PID box light & PID Box 75A to 350A)

Pick up the phone or email for a quote!

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- Proven solution tested by TUV Rheinland
- Improvement in affected panels within 5 days*
- Compatible with all brands of inverters and string sizes*
- Suitable for small and medium as well as large scale solar systems
- Plug and play
- Performance at all levels

**Applicable for PID box Mini and the PID box 75 to 350A*

Technical data

Ordering information

Unit type	Connection type	Input type	Power supply voltage	Environmental conditions	Order code
PID regeneration box	Series	2 × 20 A	18 VDC	Indoor	PV-PID-MINI-ID
				Outdoor	PV-PID-MINI-OD
	Series	75 A/350 A	230 VAC/110 VAC	Outdoor	PV-PID-BOX-__A
	Parallel	2 × 50 kW	18 VDC	Indoor	PV-PID-LIGHT-ID
				Outdoor	PV-PID-LIGHT-OD

Specifications

		PV-PID-MINI-ID	PV-PID-MINI-OD	PV-PID-BOX-__A	PV-PID-LIGHT-ID	PV-PID-LIGHT-OD	
PV array/ inverter input	Input PV voltage range	80 to 1000 V					
	Output voltage to ground	Up to 1250 V			Up to 1250 V	Up to 1000 V	
	Maximum PV current	2 × 20 A ^{*1}			75 A to 350 A depending on the PV-PID-BOX specific model ^{*2}	–	
	Maximum total PV power	–			–	100 kWp	
	Number of independent DC inputs	2			1	2	
	Maximum output current in operation	5 mA			16 mA	5 mA	
GRID (AC)	Nominal AC voltage	100 to 240 V			110 to 130 V or 220 to 250 V ^{*3}	100 to 240 V	
	Nominal AC grid frequency	47 to 63 Hz			50 to 60 Hz	47 to 63 Hz	
	Power consumption in standby operation	< 0.2 W			8 W	< 0.2 W	
	Typical power consumption in operation	8 W			20 W (typically 0.3 kWh/day)	8 W	
	Maximum power consumption	15 W			25 W	15 W	
	Inrush power	–			80 W (75 ms)	–	
General data	Dimensions (W × D × H)	270 × 200 × 75 mm			520 × 140 × 550 mm	270 × 200 × 75 mm	
	Weight	1.1 kg			16 kg	1.1 kg	
	Operating temperature range	–25 to 60 °C			–25 to 60 °C	–25 to 60 °C	
	Environmental conditions	IP30 – Indoor use	IP65 – indoor/outdoor use (power supply IP30)		IP65 – indoor/outdoor use	IP30 – Indoor use	IP65 – indoor/outdoor use (power supply IP30)
	PV connectors	MC4 compatible			copper busbar 11 mm hole	MC4 compatible	
Configuration		• One PV-PID-MINI per 2 MPPTs • Maximum one MPPT per input (A/B) • None of the connected solar module poles may become grounded on the PV side, grounding on the inverter side is possible • 18 VDC power supply included • This product will function with p-type solar cells If you want to apply this product to another technology, please contact Omron			• None of the connected solar module poles may become grounded on the PV side, grounding on the inverter side is possible • Maximum one PV-PID-BOX per MPPT of the inverter	• One PV-PID-LIGHT per 2 MPPTs • Maximum one MPPT per input (A/B) • None of the connected solar module poles may become grounded even on the inverter side • 1 screw connection for grounding the frames of the PV modules • The inverter manufacturer's approval is needed to place the PV-PID-LIGHT. The client is responsible getting the approval • This product will function with p-type solar cells If you want to apply this product to another technology, please contact Omron	
Warranty		Standard 2 years					
Certificates		CE Declaration, EMC: EN 61000-6-3:2007, EN 61000-6-2:2005, LVD: EN50178:1997					

^{*1} 2 × 25 A model available, please specify when ordering, product code is PV-PID-MINI-ID(-OD)-25A

^{*2} Available PV-PID-BOX-__A models are:

PV-PID-BOX-75A, PV-PID-BOX-100A, PV-PID-BOX-125A, PV-PID-BOX-150A, PV-PID-BOX-200A, PV-PID-BOX-250A, PV-PID-BOX-300A, PV-PID-BOX-350A

^{*3} Specify when ordering

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