



PV Array Insulation Resistance Detection

IRD300

Ground Fault Detection

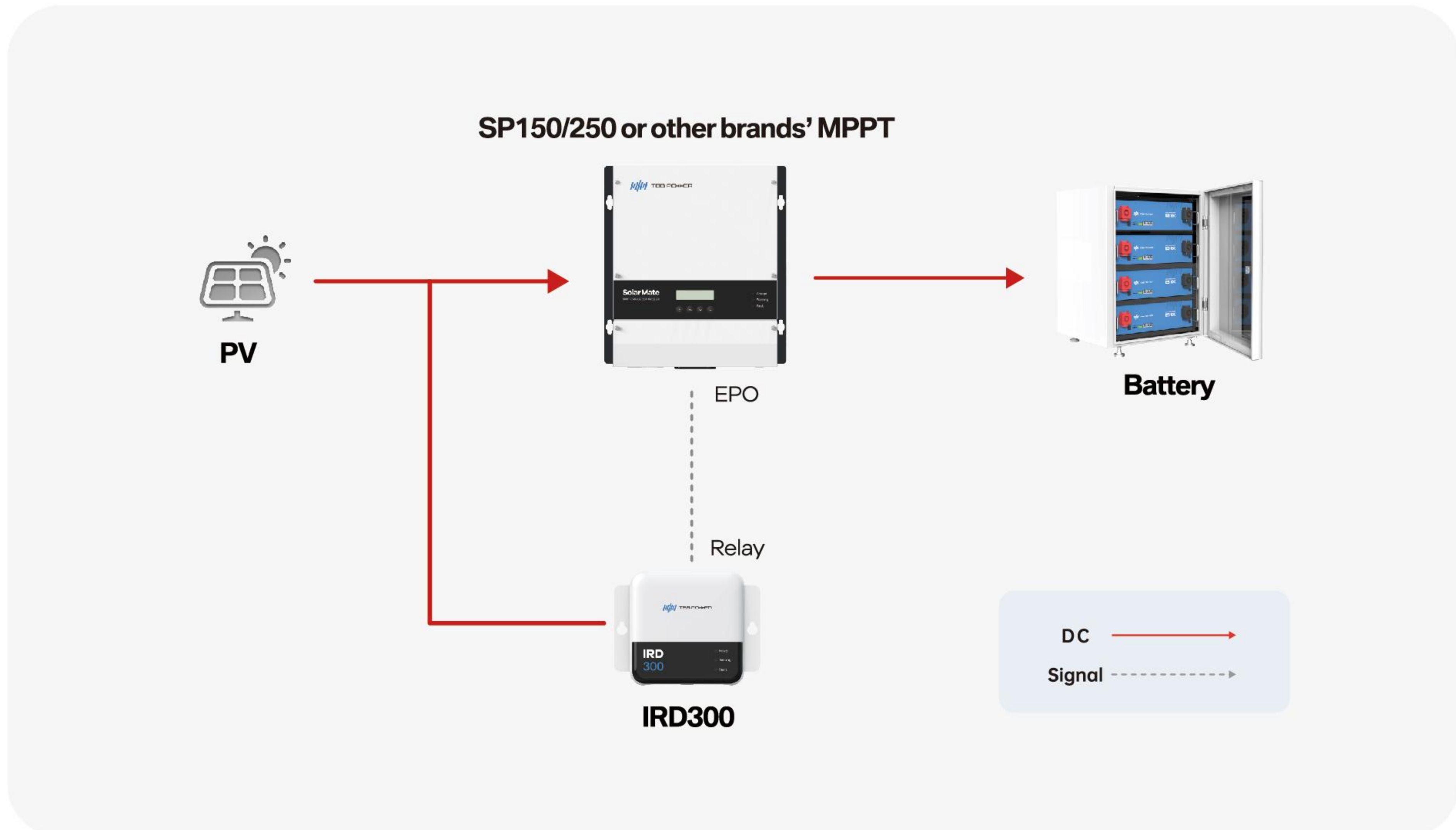
The IRD300 PV array insulation resistance detection (also called earth fault detection) satisfies the need for detecting abnormal PV array (open-circuit voltage range: 60-300V) insulation resistance to ground, with a high compatibility to work with non-isolated solar charge controllers. When abnormal PV array insulation resistance to ground is detected, the fault indication will be presented by means of: 1) the alarm indicator light on the device, 2) fault reminder sent via RS485 communication, or 3) an alarm relay output.

- Sourcing auxiliary power directly from the PV array under detection, no external adapter needed
- Suitable for a single PV array or two arrays
- Built-in with an alarm relay output, fit for applications without communication, like working with TBB SP150 and SP250 and other brands' MPPT solar charge controllers
- Support RS485 communication, applicable to TBB Solar Hybrid Inverters
- Compact and lightweight design for easy installation and wiring

Model No.	IRD300
Solar	
PV array monitoring range	60 – 300VDC
General Data	
Alarm indication relay	1x (30Vdc/3A or 250Vac/3A)
General purpose com. Port	RS485
Operating temperature range	-20°C to 65°C
Relative humidity in operation	95% without condensation
Altitude	3000m
Mechanical Data	
Dimension	85mm*85mm*35mm
Net weight	0.20kg
Cooling	Natural cooling
Protection index	IP21
Standards	
Safety	AS/NZS 3100
EMC	AS/NZS 61000.6.3

Application

Work with TBB SP150 and SP250 or other brands' MPPT solar charge controllers without communication



Work with TBB all-in-one solar inverter series through RS485 communication

