

# PV+<sup>3</sup>

## Three Phase Grid Voltage Monitor Unit



matt:e Ltd is pleased to announce the latest development in its range of PVDC connection units the PV+<sup>3</sup>

### Why do I need one?

According to a recent report released by Western Power Distribution, over 50% of our homes and businesses are supplied at a voltage above 243.8V, with nearly 7% of these being supplied with a voltage above 248.8V!

Although this falls well within the allowed supply voltage range of 207/253V, it can lead to loss of generation from your PV system: reducing the amount of precious free energy generated and potentially extending the return on your investment.

### How does the PV+<sup>3</sup> help?

Solar PV system inverters have to increase the supplied grid voltage by typically 4 volts in order to be able to push the generated energy around your property, and the surplus back out onto the national grid.

This increase in voltage combined with losses in wiring circuits can cause inverters to prematurely shut down due to their over voltage settings. By monitoring the incoming supply voltage rather than the inverter voltage, the PV+<sup>3</sup> unit allows the Solar PV inverter to compliantly stay in circuit for longer: preventing nuisance over voltage shut down and resulting in an increase in PV generation.

Furthermore, like all electrical appliances manufactured for Europe and the UK, Solar PV inverters are designed to operate at 230v: by running inverters closer to their designed voltage parameters, the PV+<sup>3</sup> will help prevent overheating of the appliance thus increasing the operating lifespan



### Product features

- matt:e type tested software
- Designed and built solely in the UK
- Designed for systems up to 50kWp Output

...Simplifying PV connection



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## Dimensions and Specifications

Description	PV+ <sup>3</sup> Grid Voltage Monitor Unit
Input Volts	Three Phase 400V , 50Hz
Max Load	50kW
Operating Temperature	-5°C to +40°C
Dimensions	Approximately 400mm x 500mm x 170mm
Weight	Approximately 30.0kG
Enclosure	Mild Steel Powder Coated
Ingress Protection	IP20
Warranty	The matte PV+ <sup>3</sup> Grid Voltage Monitor Unit is guaranteed for a period of 5 years from the date of purchase. This warranty is limited to the replacement of faulty components only.